

**ORDER NO. BSD0009M606**

**D25**

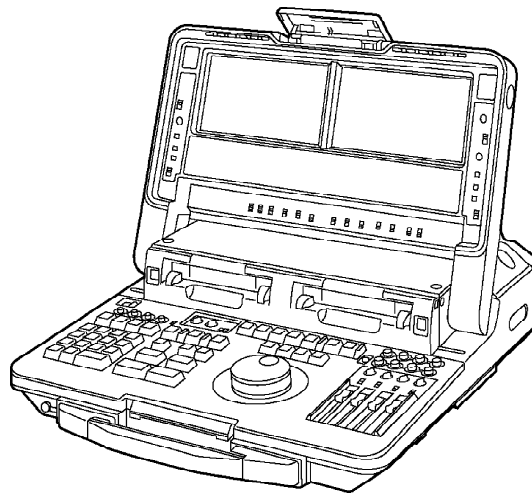
# Service Manual

**Lap Top Editor**



**AJ-LT95E**

Circuit Board Diagram and Electrical Part List of AJ-LT95E are described in CD-ROM Service Manual (Order No. BSD00101K0X). / Mechanical adjustment and Major Mechanical Parts Replacement procedure of AJ-LT95 are described in service manual "DVC PRO MECHANISM" (Order No. VSD9912M914). Please perform the adjustment and replacement following the above indicated manual and this manual.



## **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



## Specifications

### [GENERAL]

<b>Supply voltage:</b> DC 12 V <b>Input current:</b> 12 A
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**Ambient operating temperature:**  
5°C to 40°C

**Ambient operating humidity:**  
10% to 85% (no condensation)

**Weight:**  
12.9 kg

**Dimensions (W×H×D):**  
424×120×435 mm

**Recording format:**  
DVCPRO 50 format/DVCPRO format selectable

**Video signals recorded:**  
525i/625i selectable (625i only with input signals)

**Audio signals recorded:**  
DVCPRO 50: 48 kHz, 16 bits, 4 channels  
DVCPRO: 48 kHz, 16 bits, 2 channels

**Recording tracks:**

- Digital video and digital audio:  
Helical track
- TC:  
Helical track (subcode area)
- Cue signal:  
1 track
- Control (CTL) signal:  
1 track

**Tape speed:**  
DVCPRO 50 (525i): 67.640 mm/s  
DVCPRO 50 (625i): 67.708 mm/s  
DVCPRO (525i): 33.820 mm/s  
DVCPRO (625i): 33.854 mm/s

**Recording time:**

- DVCPRO 50:  
92 minutes (using AJ-5P92LP)  
33 minutes (using AJ-P66MP)
- DVCPRO:  
184 minutes (using AJ-5P92LP\*)  
66 minutes (using AJ-P66MP)

* For AJ-5P92LP cassette tapes recorded using the DVCPRO (25 Mbps) mode, use a VTR supporting DVCPRO (25 Mbps) 184 minute tapes.
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**Tape used:**  
Metal tapes

**FF/REW time:**  
Less than 3.5 min. (using AJ-5P92LP)

**Editing accuracy:**  
±0 frames (using time code)

**Tape timer accuracy:**  
±2 frames (using continuous CTL signal)

**Servo lock time:**  
Less than 0.5 sec

### [VIDEO]

#### ■ Digital video (same for VTR1, VTR2)

**Sampling frequencies:**

- DVCPRO 50  
Y: 13.5 MHz  
P<sub>B</sub>/P<sub>R</sub>: 6.75 MHz
- DVCPRO  
Y: 13.5 MHz  
P<sub>B</sub>/P<sub>R</sub>: 3.375 MHz

**Quantizing:**  
8 bits

**Video compression system:**  
DCT + variable-length code

**Video compression ratios:**

- DVCPRO 50: 1/3.3
- DVCPRO: 1/5

**Error correction:**  
Reed Solomon product code

#### ■ Digital IN/analogue component OUT (VTR2 only)

**Video band (DVCPRO 50):**

- 625i  
Y: 25 Hz to 5.5 MHz (±1 dB)  
5.75 MHz (−3 dB)  
P<sub>B</sub>/P<sub>R</sub>: 25 Hz to 2.5 MHz (±1 dB)  
2.75 MHz (−3 dB)

**Signal-to-noise ratio:**  
Better than 57 dB

**K factor:**  
Less than 2%



## Specifications

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### [VIDEO]

#### ■ Analogue component IN/analogue component OUT (same for VTR1, VTR2)

##### Video band (DVCPRO 50):

- 625i
  - Y: 25 Hz to 5 MHz ( $\pm 1$  dB)
  - P<sub>B</sub>/P<sub>R</sub>: 25 Hz to 2.5 MHz ( $\pm 1$  dB)
  - 2.75 MHz ( $-3$  dB)

##### Signal-to-noise ratio:

Better than 54 dB

##### K factor:

Less than 2%

#### ■ Analogue composite IN/analogue composite OUT (same for VTR1, VTR2)

##### Video band:

- 625i
  - Y: 25 Hz to 4.5 MHz ( $\pm 1.5$  dB)

##### Y/C delay:

Less than 20 ns

##### K factor:

Less than 2%

### [AUDIO]

#### ■ Digital audio (same for VTR1, VTR2)

##### Sampling frequency:

48 kHz

##### Quantizing:

16 bits

##### Frequency response:

20 Hz to 20 kHz  $\pm 1$  dB (at reference level)

##### Dynamic range:

More than 85 dB (1 kHz, emphasis off, "A" weighted)

##### Distortion:

Under 0.1% (1 kHz, emphasis off, reference level)

##### Crosstalk:

Less than  $-80$  dB (1 kHz, between 2 channels)

##### Wow & flutter:

Below measurable limits

##### Headroom:

525i: 20 dB

625i: 18 dB

##### Emphasis:

T1 = 50  $\mu$ s/T2 = 15  $\mu$ s (on/off selectable)

### [ADJUSTMENTS]

#### ■ Video output signals (separately for VTR1, VTR2)

##### Video gain:

More than  $\pm 3$  dB

##### Chroma gain:

More than  $\pm 3$  dB

##### Chroma phase:

More than  $\pm 30$  deg

##### Black level:

More than  $\pm 70$  mV

##### H phase:

More than  $\pm 8$   $\mu$ s

##### SC phase:

$\pm 180$  deg



## Specifications

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### [INPUT/OUTPUT CONNECTORS]

#### ■ VIDEO

##### Analogue component input:

BNC × 6 ([Y/P<sub>B</sub>/P<sub>R</sub>] × 2) (VTR1, VTR2)

Y: 1.0 V [P-P], 75 Ω, switched with analogue composite input

P<sub>B</sub>/P<sub>R</sub>: 0.525/0.757 V [P-P] switching, 75 Ω (75% colour bar, 0% setup)

##### Analogue composite input:

BNC × 2 (VTR1, VTR2), 1.0 V [P-P], 75 Ω, switched with analogue component Y input

##### Reference input:

BNC × 2 (loop-through), 75 Ω, automatic ON/OFF switching

##### Serial component digital input:

BNC × 2 (active through), compliant with SMPTE259M-C standard

##### Analogue component output:

BNC × 6 ([Y/P<sub>B</sub>/P<sub>R</sub>] × 2) (VTR1, VTR2)

Y: 1.0 V [P-P], 75 Ω, switched with analogue composite output

P<sub>B</sub>/P<sub>R</sub>: 0.525/0.757 V [P-P] switching, 75 Ω (75% colour bar, 0% setup)

##### Analogue composite output:

BNC × 2 (VTR1, VTR2), 1.0 V [P-P], 75 Ω, switched with analogue component Y output

##### Monitor output:

BNC × 2 (VTR1, VTR2), analogue composite, 1.0 V [P-P], 75 Ω, superimpose ON/OFF

##### Serial component digital output:

BNC × 1, compliant with SMPTE259M-C standard

#### ■ AUDIO

##### Analogue input:

XLR × 4 (VTR1 CH1/2 and VTR2 CH1/2, VTR1 CH1/2/3/4, VTR2 CH1/2/3/4 selectable)

600 Ω/high impedance selectable

+4/0/-3/-20 dBu selectable

VTR2 CH2 input (no.2 connector) only

+4/0/-3/-60 dBu selectable

##### Serial digital input:

BNC × 2 (active through), compliant with SMPTE259M-C standard

##### Analogue output:

XLR × 4 (VTR1 CH1/2 and VTR2 CH1/2, VTR1 CH1/2/3/4, VTR2 CH1/2/3/4 selectable),

low impedance,

+4/0/-3/-20 dBu selectable

##### Monitor output:

XLR × 2 (L/R or VTR1/2), low impedance, 0 dBu

##### Serial digital output:

BNC × 1, compliant with SMPTE259M-C standard

##### Headphones:

M3 stereo, variable level (max. -25 dBu), 8 Ω, VTR1/VTR2 selectable, L/STEREO/R selectable

#### ■ OTHER

##### TC input:

BNC × 1, 0.5 to 8 V [P-P], 10 kΩ

##### TC output:

BNC × 2 (VTR1, VTR2, video monitor output connectors selectable), 2.0 V [P-P], 75 Ω

##### Remote: (625i mode only)

D-sub 9-pin × 2 (VTR1, VTR2)

RS-422A interface

REMOTE IN/OUT selectable for VTR1

REMOTE IN only for VTR2

##### EDL input/output:

D-sub 9-pin, RS-232C interface



## Specifications

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### [LCD MONITOR]

**LCD panel:**

7-inch wide-screen TFT active matrix ×2 (VTR1, VTR2), wide-screen/normal selectable (blank sides in normal mode), 525i/625i selectable

**Brightness adjustment:**

Controls ×2 (VTR1, VTR2)

**Picture quality adjustment:**

Colour, tint (separate on-screen display menus for left, right)

(Tint: 525i mode only)

**Backlight selection:**

Bright, dark, off (separate switches for left, right)

### [SPEAKERS]

Internal speakers ×2, VTR1/VTR2 selectable,  
L/STEREO/R selectable

### [DISPLAY TUBES]

■ **Counter/mode display tubes (VTR1, VTR2)**

**Counter:**

8 digits (CTL/TC/UB selectable, total tape amount, remaining tape amount, DC voltage)

**Audio level meter:**

16 segments, 4 channels, FULL/FINE selectable

**Other:**

525, 25/50 Mbps, CF, servo lock, tape travel mode, DF, wide screen, recording/edit recording /recording inhibit, video/REF input, SDI output

■ **Event/edit point display tube**

Event numbers, edit IN and OUT points, split (A SP or V SP), split IN point

Weight and dimensions shown are approximate.  
Specifications are subject to change without notice.



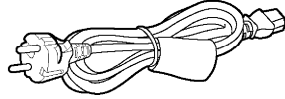
## Caution for AC Mains Lead

### FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

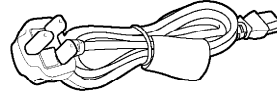
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

#### FOR CONTINENTAL EUROPE, ETC. Not to be used in the U.K.



#### FOR U.K. ONLY

If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.



#### FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 13 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.


If in any doubt please consult a qualified electrician.

**WARNING:** THIS APPLIANCE MUST BE EARTHED.

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:

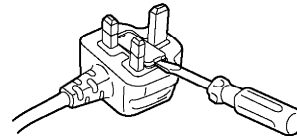
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

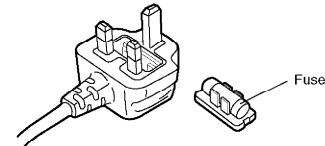
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol  or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

#### How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



## SAFETY PRECAUTIONS

### GENERAL GUIDELINES

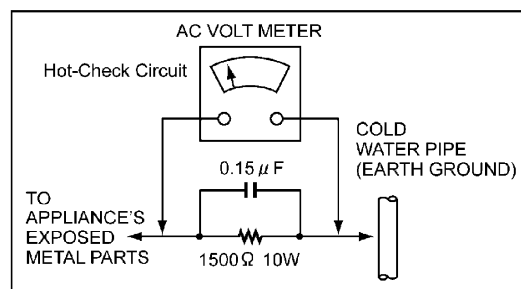
1. When servicing, observe the original lead dress. If a short / circuit is found, replace all parts which have been over-heated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.



#### LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than  $5M\ \Omega$ .

Figure1



#### LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet. / Do not use an isolation transformer for this check.
2. Connect a 1.5k  $\Omega$  , 10W resistor, in parallel with a 0.15  $\mu F$  capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the



**equipment should be repaired and checked before it is returned to the customer.**

#### **ELECTROSTATICALLY SENSITIVE (ES) DEVICES**

**Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.**

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. / Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.**
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
- 3. Use only a grounded tip soldering iron to solder or unsolder ES devices.**
- 4. Use only an anti-static solder removal device classified as “anti-static” can generate electrical charges sufficient to damage ES devices.**
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. / (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).**
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be**



**installed. / CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.**

- 8. Minimize bodily motions when handling unpacked replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).**

#### **X-RADIATION**

##### **WARNING**

- 1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.**
- 2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing x-radiation.**

##### **Note :**

**It is important to use an accurate periodically calibrated high voltage meter.**

- 3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an x-radiation possibility, it is essential to use the specified picture tube.**

## **1. Operating Instructions**

## **2. Service Information**

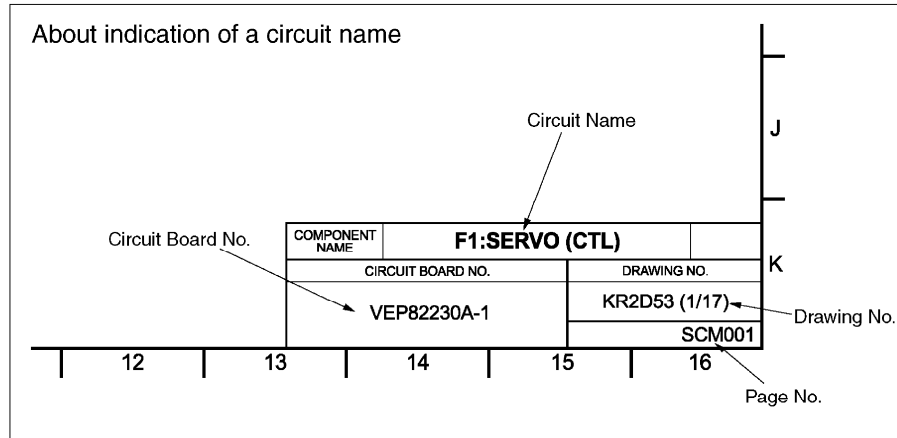
## **3. Disassembly Procedures**

## **4. Electrical Adjustment**



## 5. Block Diagrams

## 6. Schematic Diagrams



### NOTE

BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION9.

### CAUTION

THE ☐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. / PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REP/ SERVICE OF THE PRODUCTS.

### IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. / WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

### 6.1. DIGITAL1 (VEP83473B)

### 6.2. DIGITAL2 (VEP83474B)

### 6.3. MAIN CONTROL (VEP86290B)

### 6.4. AUDIO VIDEO (VEP84336B)

### 6.5. AD/VD SUB (VEP84344B)

### 6.6. A PRO & SDI (VEP83475A)



- 6.7. SERVO DRIVE (VEP82228A)
- 6.8. RF AMP 1 (VEP85182A)
- 6.9. RF AMP 2 (VEP85183A)
- 6.10. SG (VEP83482B)
- 6.11. DISP. CONT. (VEP86291A)
- 6.12. DISPLAY (VEP86292A)
- 6.13. DISP SW (VEP80B35A)
- 6.14. POWER 1 (VEP81194A)
- 6.15. POWER 2 (VEP81195A)
- 6.16. POWER 3 (VEP81196A)
- 6.17. DC IN (VEP80B32A), / V OUT 1 (VEP83469B)
- 6.18. V OUT 2 (VEP83470B)
- 6.19. FRONT JACK (VEP80B27A)
- 6.20. REAR JACK (VEP84339A) /
- 6.21. AV IO (VEP84337A)
- 6.22. TOP LED (VEP80B24A), / TOP SW (VEP80B25A)
- 6.23. VR BOARD 1 (VEP84340A)
- 6.24. VR BOARD 2 (VEP84341A)
- 6.25. ENCODER VR1 (VEP83471A)
- 6.26. ENCODER VR2 (VEP83472A)
- 6.27. MIC AMP (VEP84338A)
- 6.28. LCD CONT 1 (VEP80B22A)
- 6.29. LCD CONT 2 (VEP80B23A)
- 6.30. ELECT SW 1 (VEP80B26A), / ELECT SW 2 (VEP80B41A)
- 6.31. INTER CONNECT (VEP80B28A)




## 7. Circuit Board Diagrams

### NOTE

BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 9.

### CAUTION

THE  MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. / PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR SERVICE OF THE PRODUCTS.

### IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. / WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

**7.1. SERVO DRIVE P.C.BOARD (VEP82228A)**

**7.2. DIGITAL 1 P.C.BOARD (VEP83473B)**

**7.3. DIGITAL 2 P.C.BOARD (VEP83474B)**

**7.4. MAIN CONTROL P.C.BOARD (VEP86290B)**

**7.5. AUDIO VIDEO P.C.BOARD (VEP84336B)**

**7.6. AD/VD SUB P.C.BOARD (VEP84344B)**

**7.7. RF AMP 1 P.C.BOARD (VEP85182A), / RF AMP 2 P.C.BOARD (VEP85183A)**

**7.8. A PROC & SDI P.C.BOARD (VEP83475A)**

**7.9. SG P.C.BOARD (VEP83482B), / POWER 3 P.C.BOARD (VEP81196A)**

**7.10. POWER 2 P.C.BOARD (VEP81195A), / POWER 1 P.C.BOARD (VEP81194A)**

**7.11. DISP. CONT. P.C.BOARD (VEP86291A), / DISPLAY P.C.BOARD (VEP86292A), / DISPLAY SW P.C.BOARD (VEP80B35A)**

**7.12. REAR JACK P.C.BOARD (VEP84339A)**



**7.13. V OUT 1 P.C.BOARD (VEP83469B)**

**7.14. V OUT 2 SW P.C.BOARD (VEP83470B)**

**7.15. AV IO P.C. BOARD (VEP84337A), / MIC AMP P.C. BOARD (VEP84338A)**

**7.16. VR BOARD 1 P.C.BOARD (VEP84340A), / VR BOARD 2 P.C.BOARD (VEP84341A)**



**7.17. LCD CONTROL 1 P.C.BOARD (VEP80B22A), / LCD CONTROL 2 P.C.BOARD (VEP80B23A)**

**7.18. INTER CONNECT P.C.BOARD (VEP80B28A)**

**7.19. ENCODER VR 1 P.C.BOARD (VEP83471A), / ENCODER VR 2 P.C.BOARD (VEP83472A)**

## **8. Mechanical Replacement Parts List & Exploded Views**

### **NOTE:**



1. Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (  $\mu$  F), P=  $\mu$   $\mu$  F.
3. The P.C. Board untils marked with "■" shown below the main assembled parts.
4. The parts marked with  on the exploded view show the electric parts.
5. **IMPORTANT SAFETY NOTICE**  
Components identified with the mark  have the special characteristics for safety. When re any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item. / After the diacontinuation assembly in production, it will no longer be available.
7. "(M)" in Remark column indicates needed in the periodical maintenance.

## **9. Electrical Replacement Parts List**



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**NOTE:**

1. Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (  $\mu$  F), P=  $\mu$   $\mu$  F.
3. The P.C. Board untils marked with " ■ " shown below the main assembled parts.
4. The parts marked with  on the exploded view show the electric parts.
5. **IMPORTANT SAFETY NOTICE**  
Components identified with the mark  have the special characteristics for safety. When re any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item. / After the diacontinuation assembly in production, it will no longer be available.

**NOTE:**

A list of parts is stored in data form in the CD-ROM. It is located within the folder APPENDIX/PARTS. Please use as necessary.

## 10. PDF for Printing

The PDF documents for printing consist of several files per section. Open every section (file) through a link (blue frame) on the cover.

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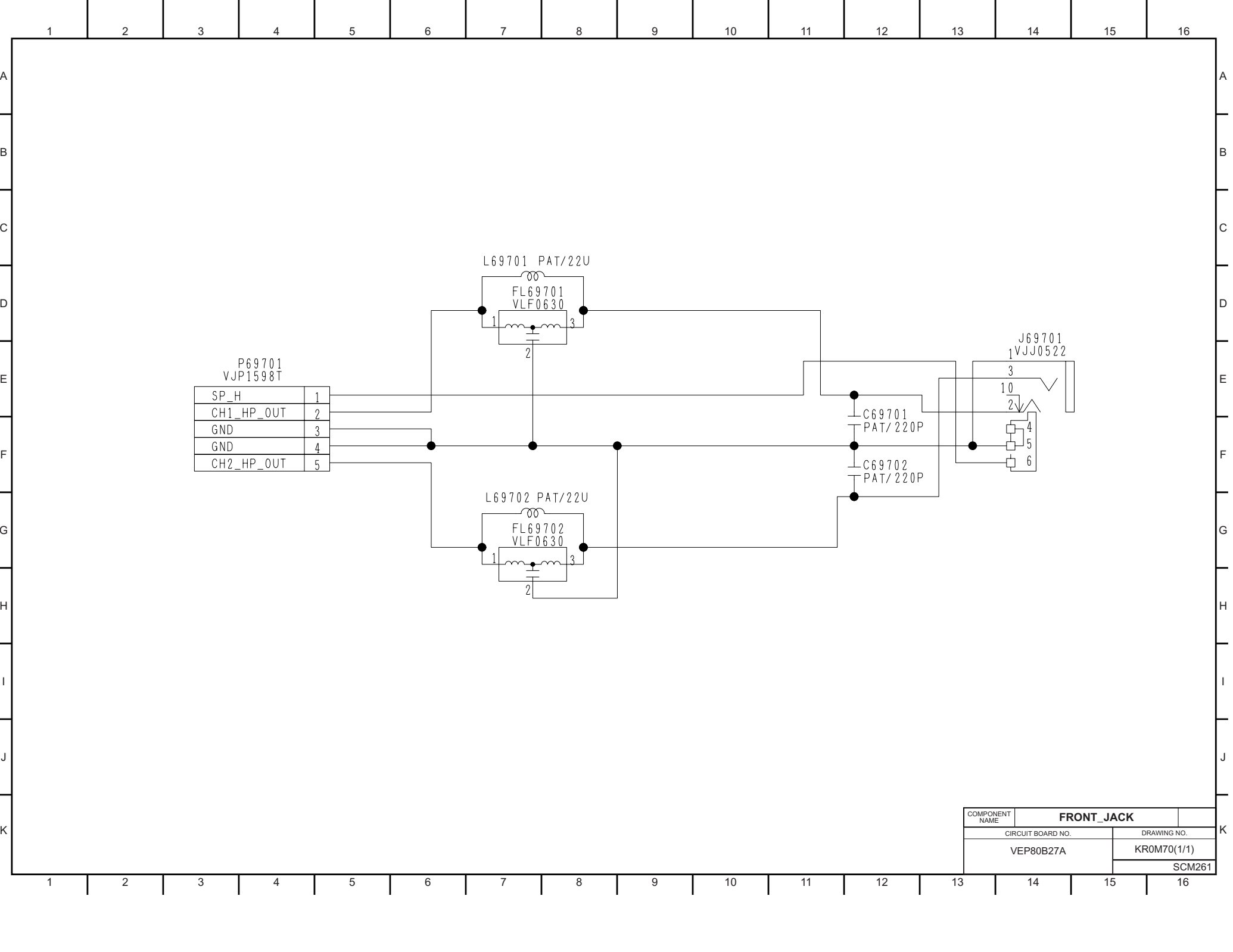
● **Setting of Acrobat Reader**

To view a link in a new window, follow the procedure below. When you operate the PDF document printing, you can open a PDF file of each section while displaying the cover page. This is convenient to view the PDF files in several sections.

<How to set> In the [File] menu, select [Preference] - [General...] and disable [Open Cross-Document is Same Window].

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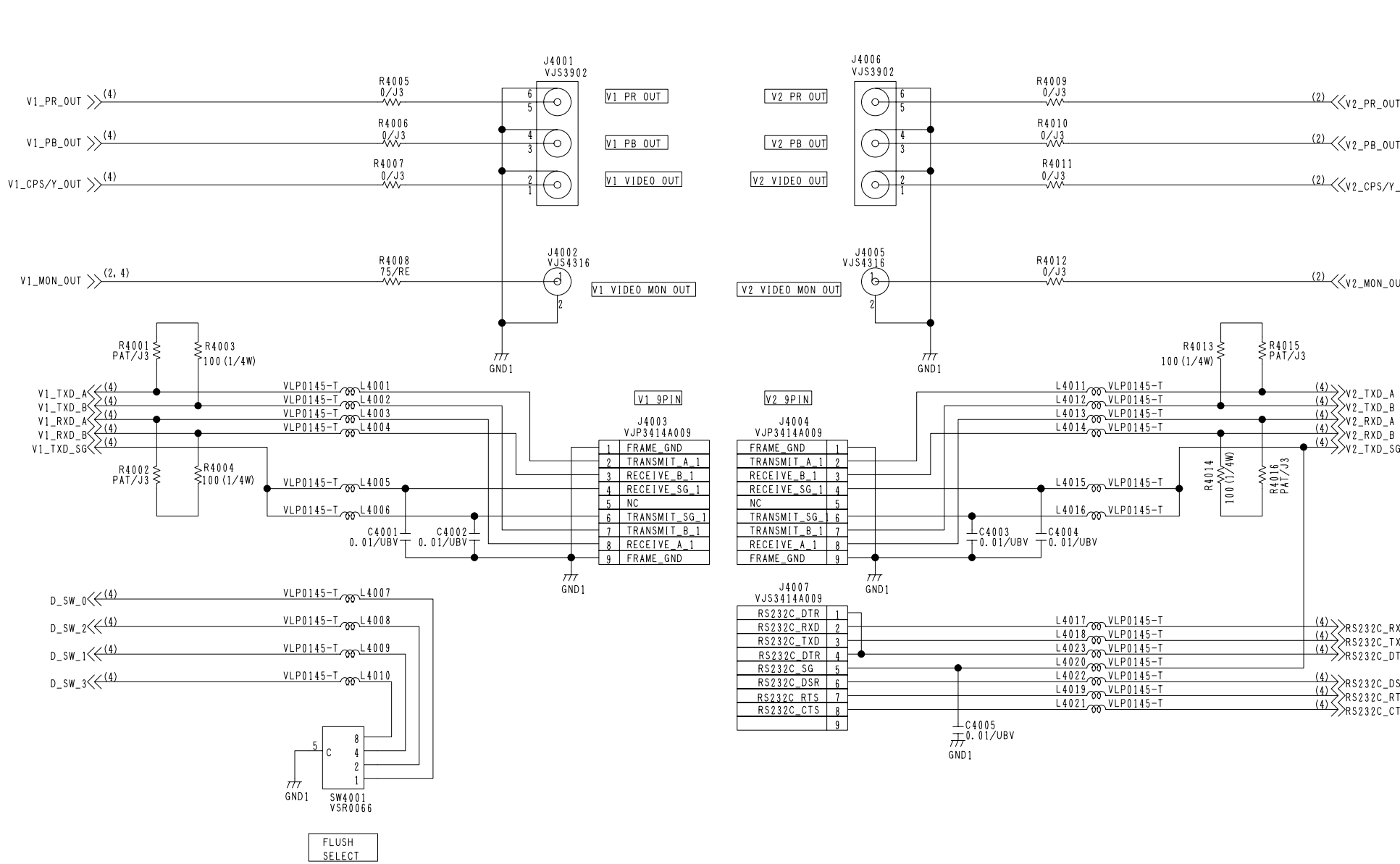




COMPONENT NAME	FRONT_JACK	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B27A		KR0M70(1/1)
		SCM261



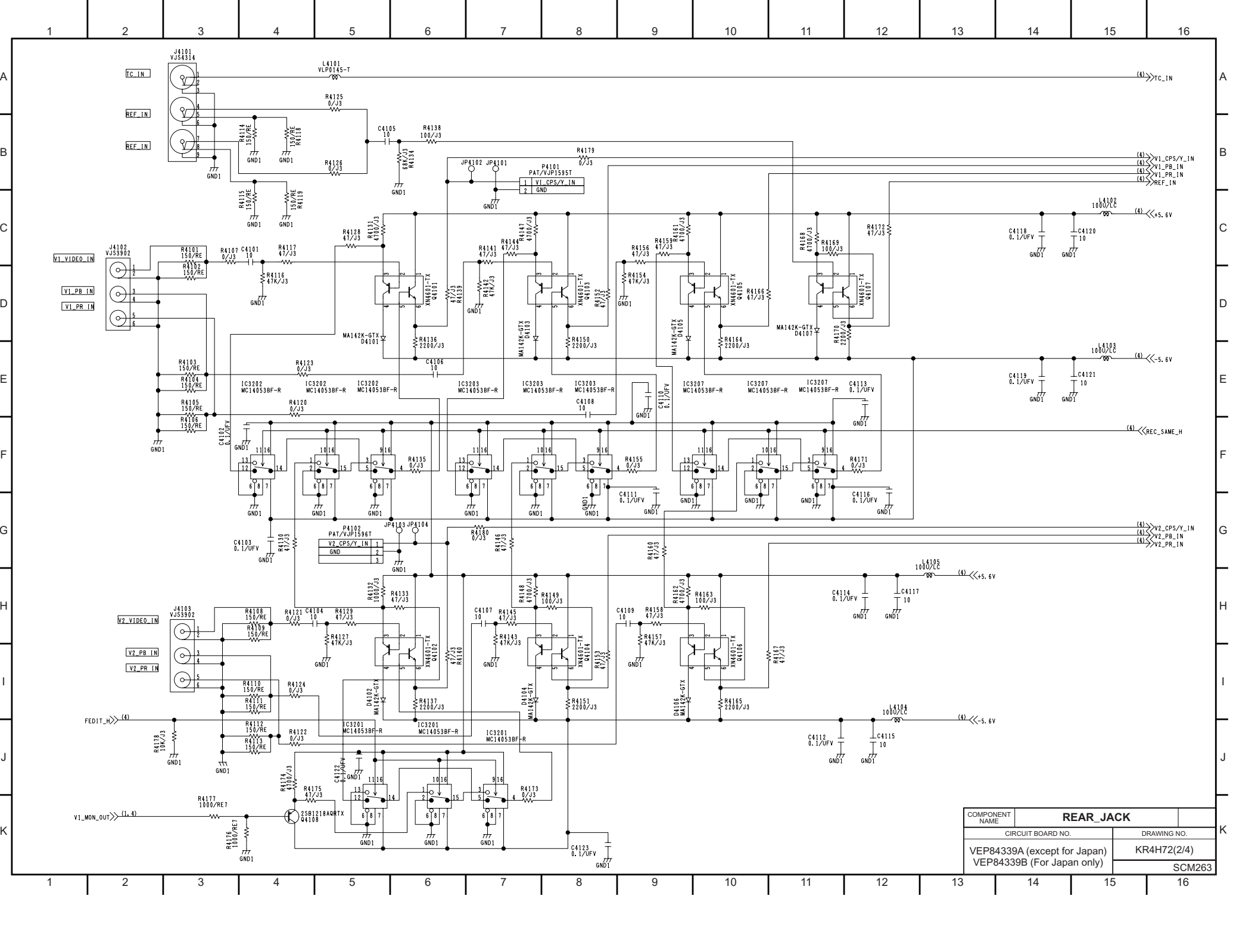
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



COMPONENT NAME	REAR JACK	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84339A (except for Japan) VEP84339B (For Japan only)		KR4H72(1/4) SCM262

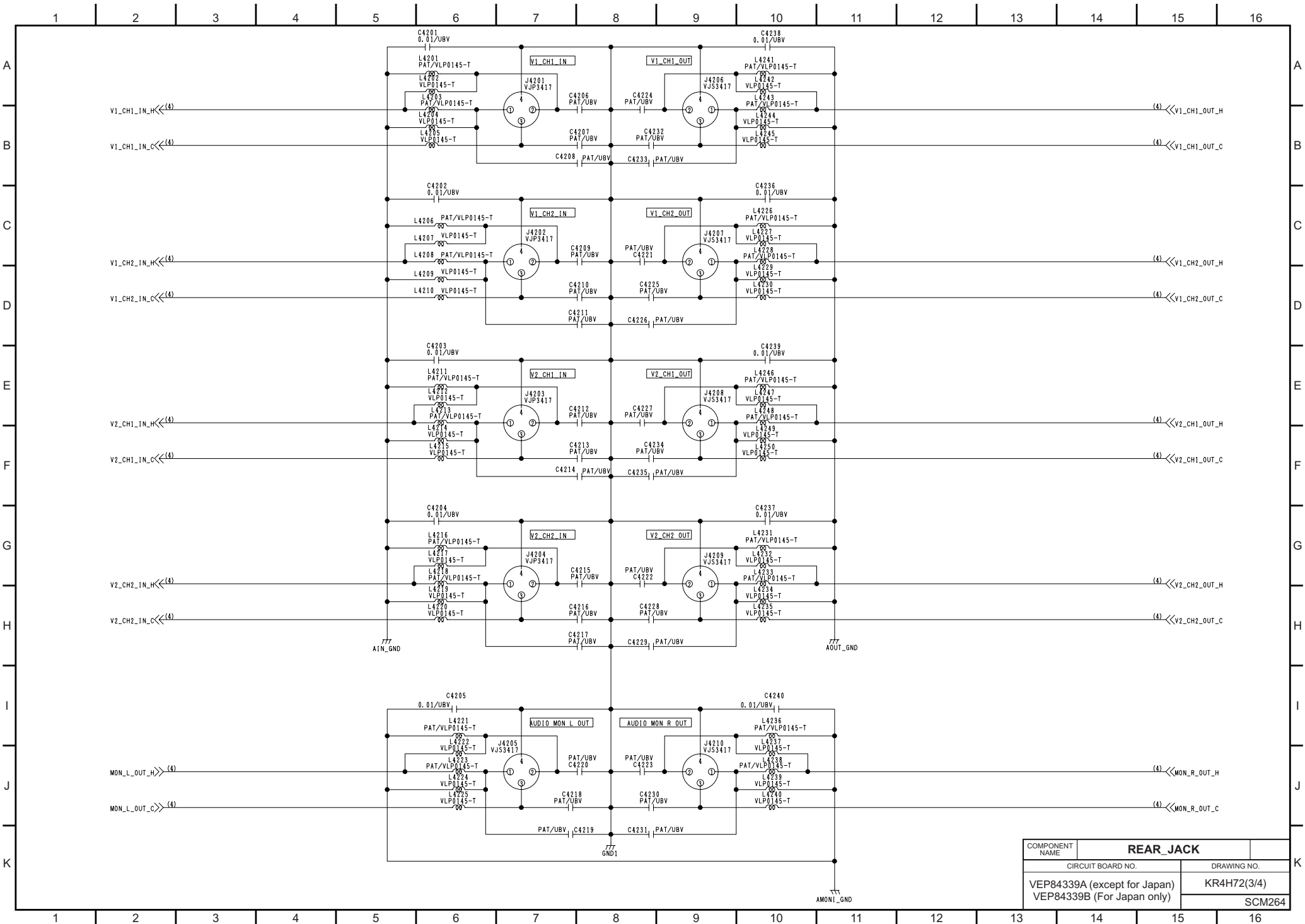
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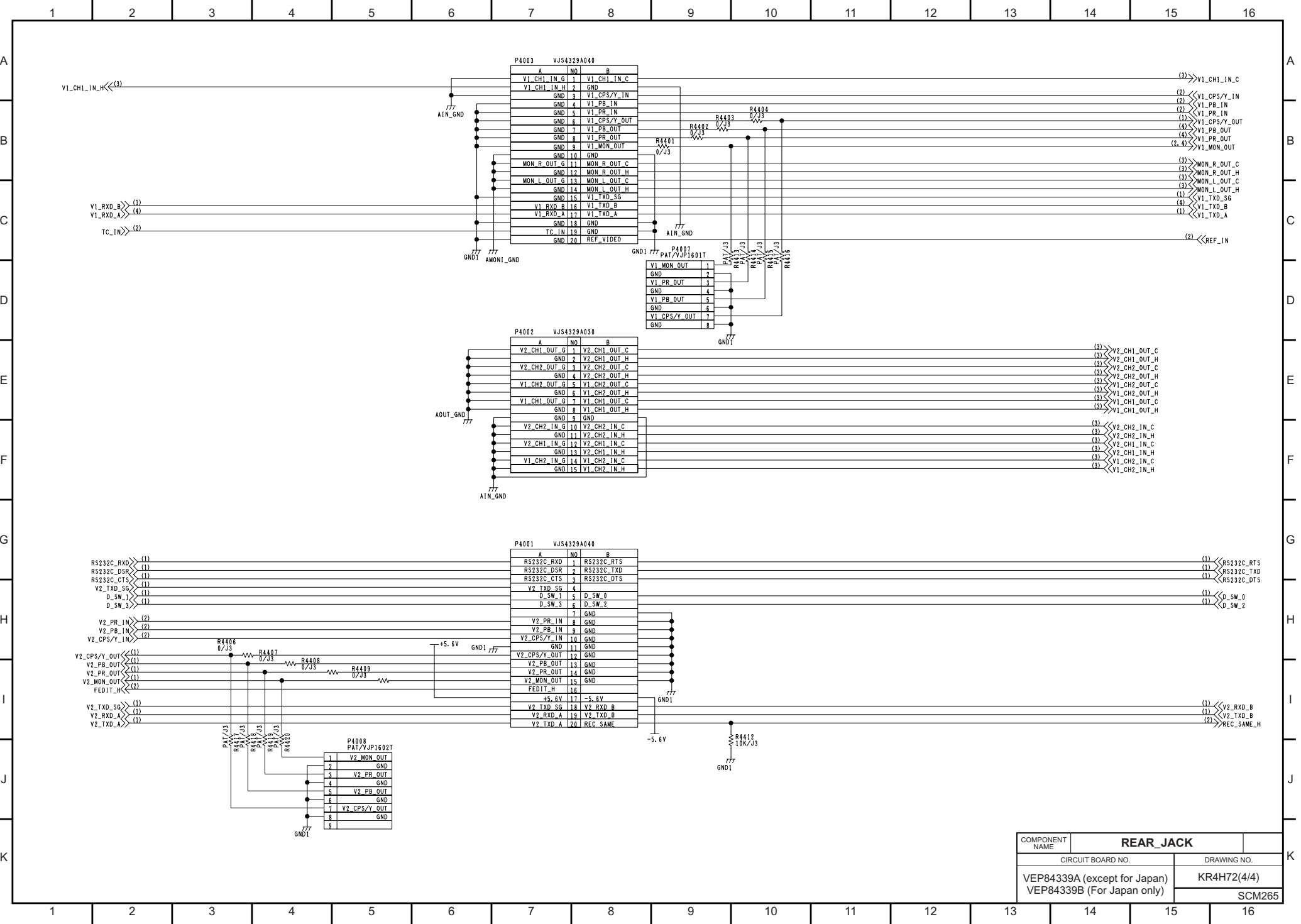


COMPONENT NAME		REAR JACK	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84339A (except for Japan)		KR47H2(2/4)	
VEP84339B (For Japan only)		SCM263	



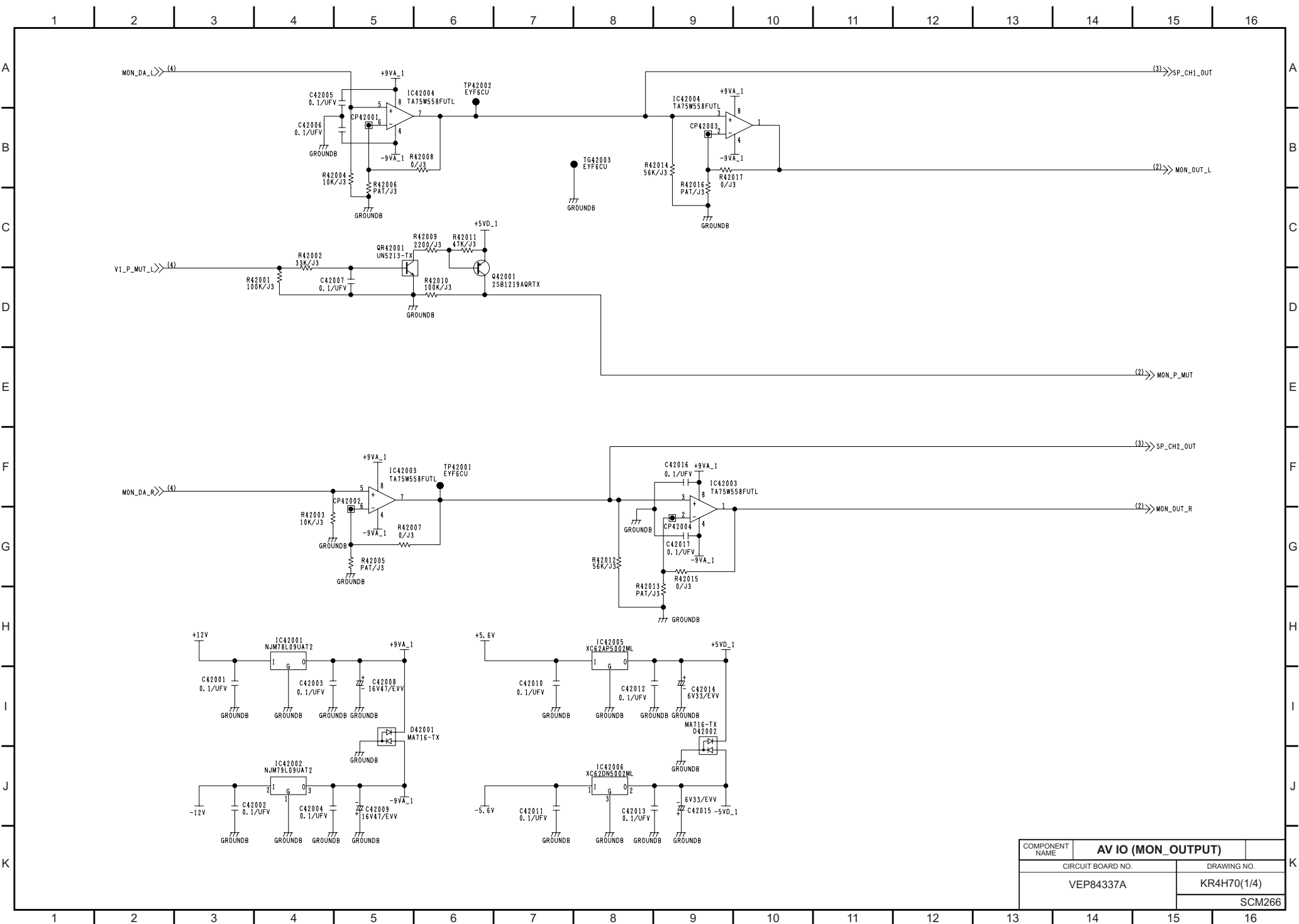






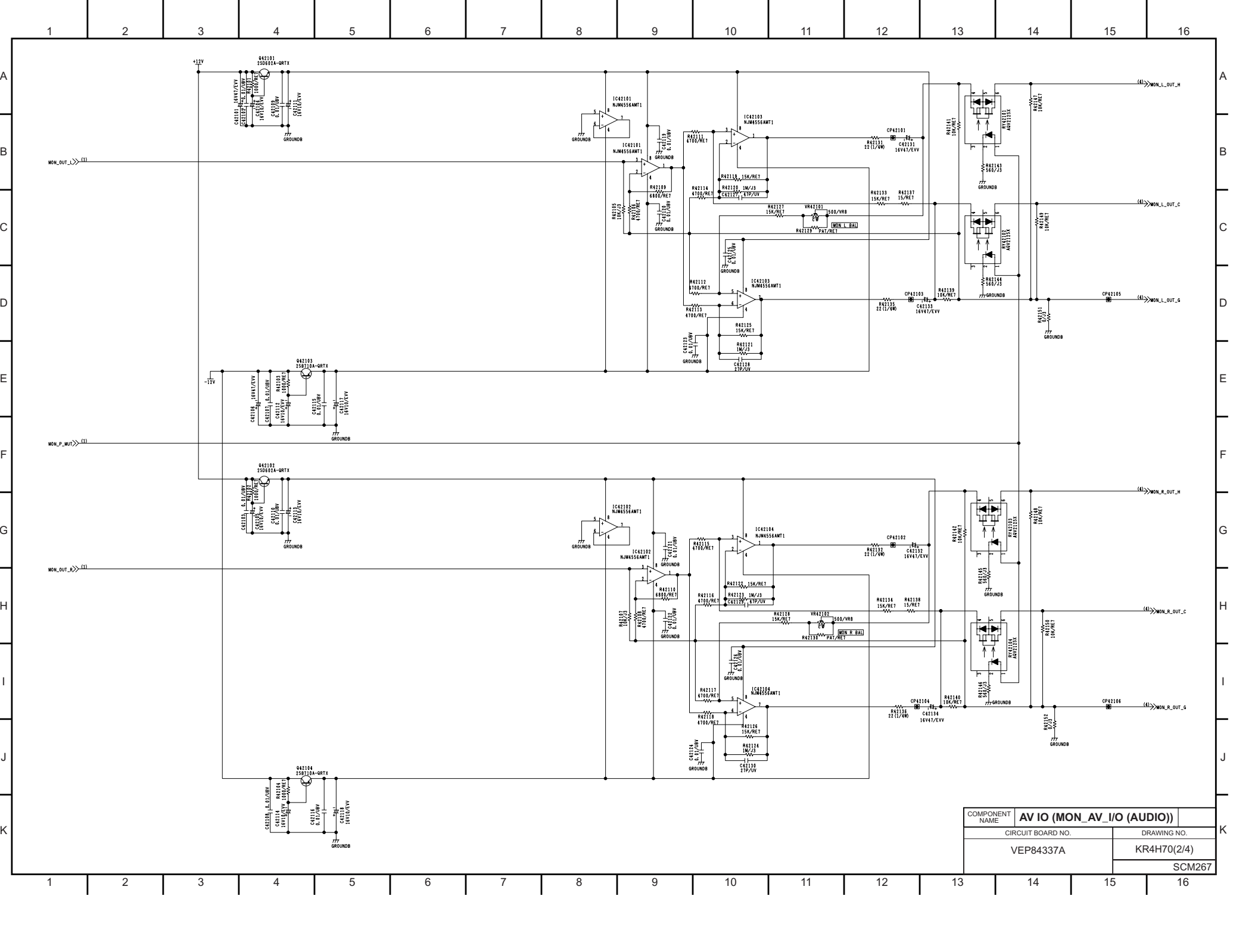
COMPONENT NAME	REAR JACK	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84339A (except for Japan)		KR4H72(4/4)
VEP84339B (For Japan only)		SCM265





COMPONENT NAME	AV IO (MON_OUTPUT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84337A		KR4H70(1/4)
SCM266		



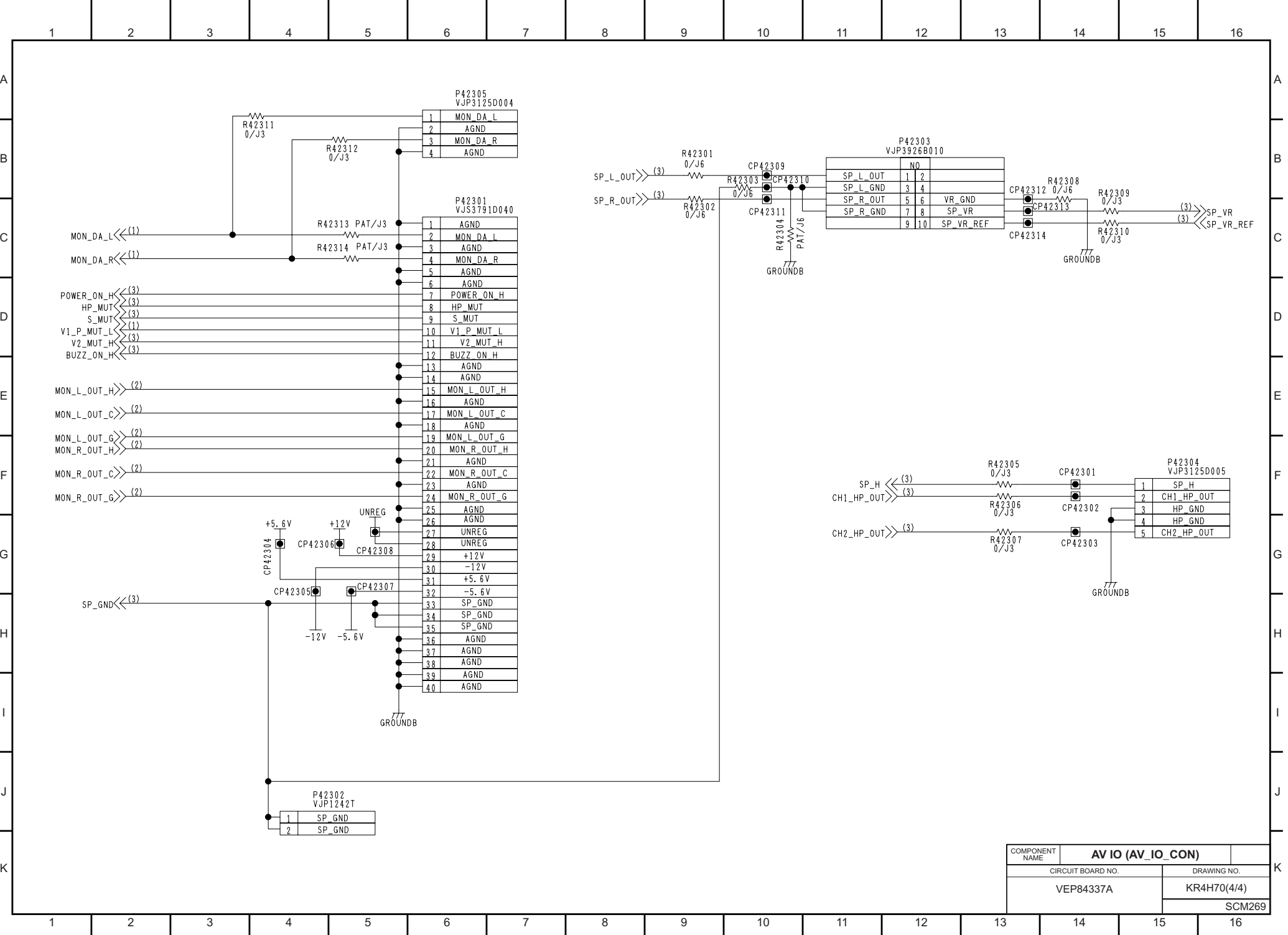


COMPONENT NAME	AV IO (MON_AV_I/O (AUDIO))	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84337A		KR4H70(2/4)
		SCM267



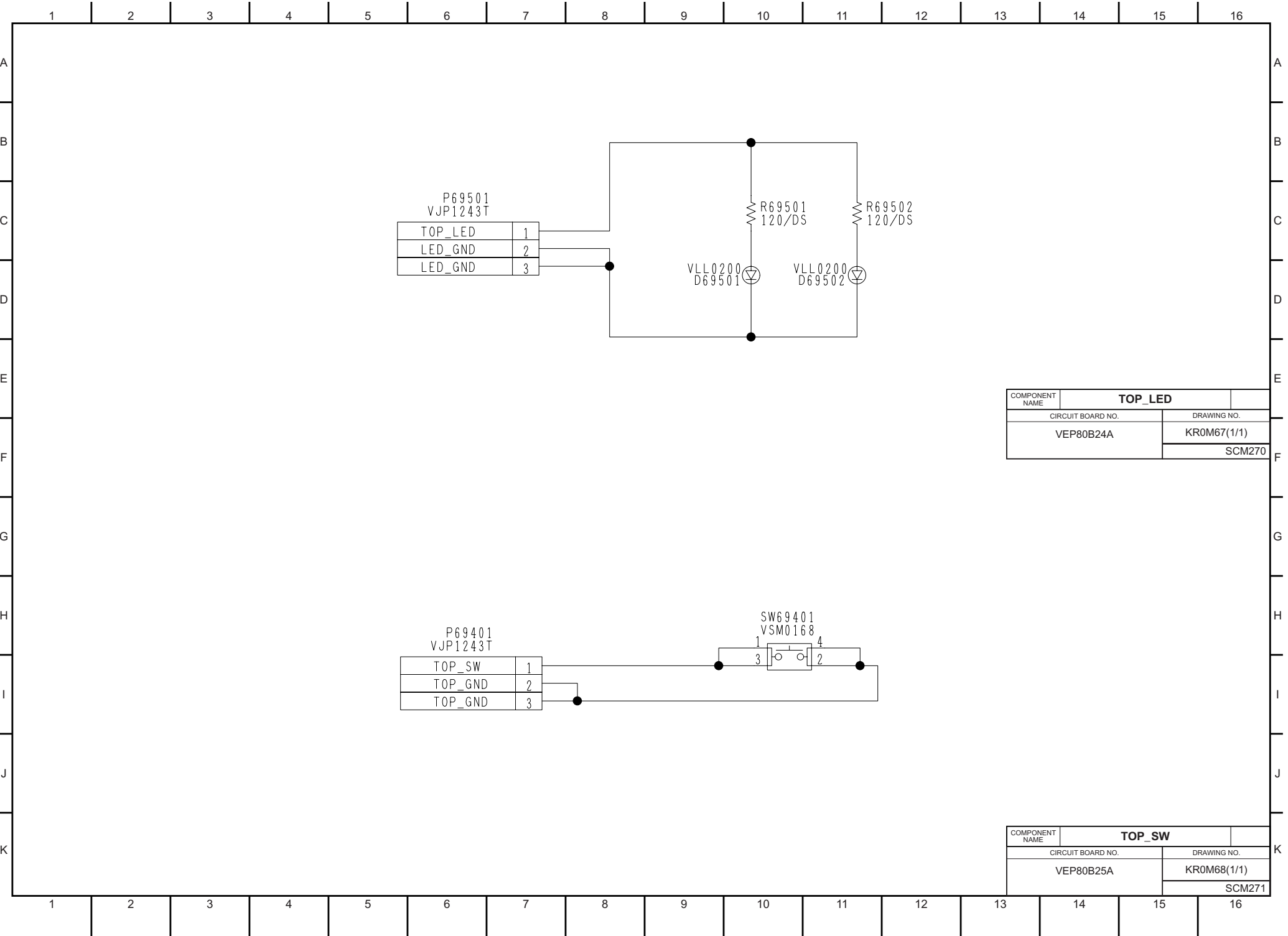






COMPONENT NAME	AV IO (AV_IO_CON)	
	CIRCUIT BOARD NO.	DRAWING NO.
VEP84337A		KR4H70(4/4)
		SCM269

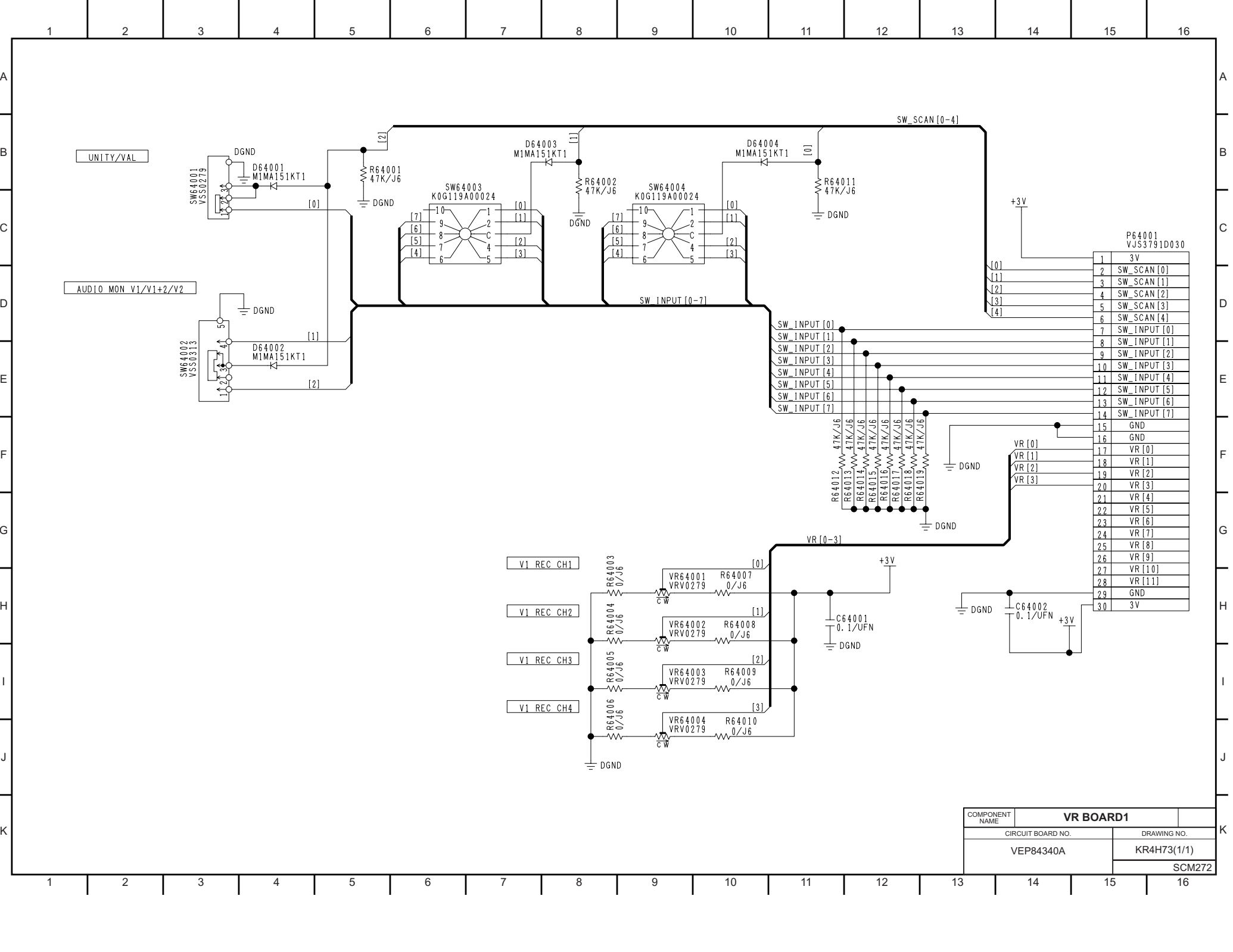




COMPONENT NAME	TOP_LED	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B24A		KR0M67(1/1)
		SCM270

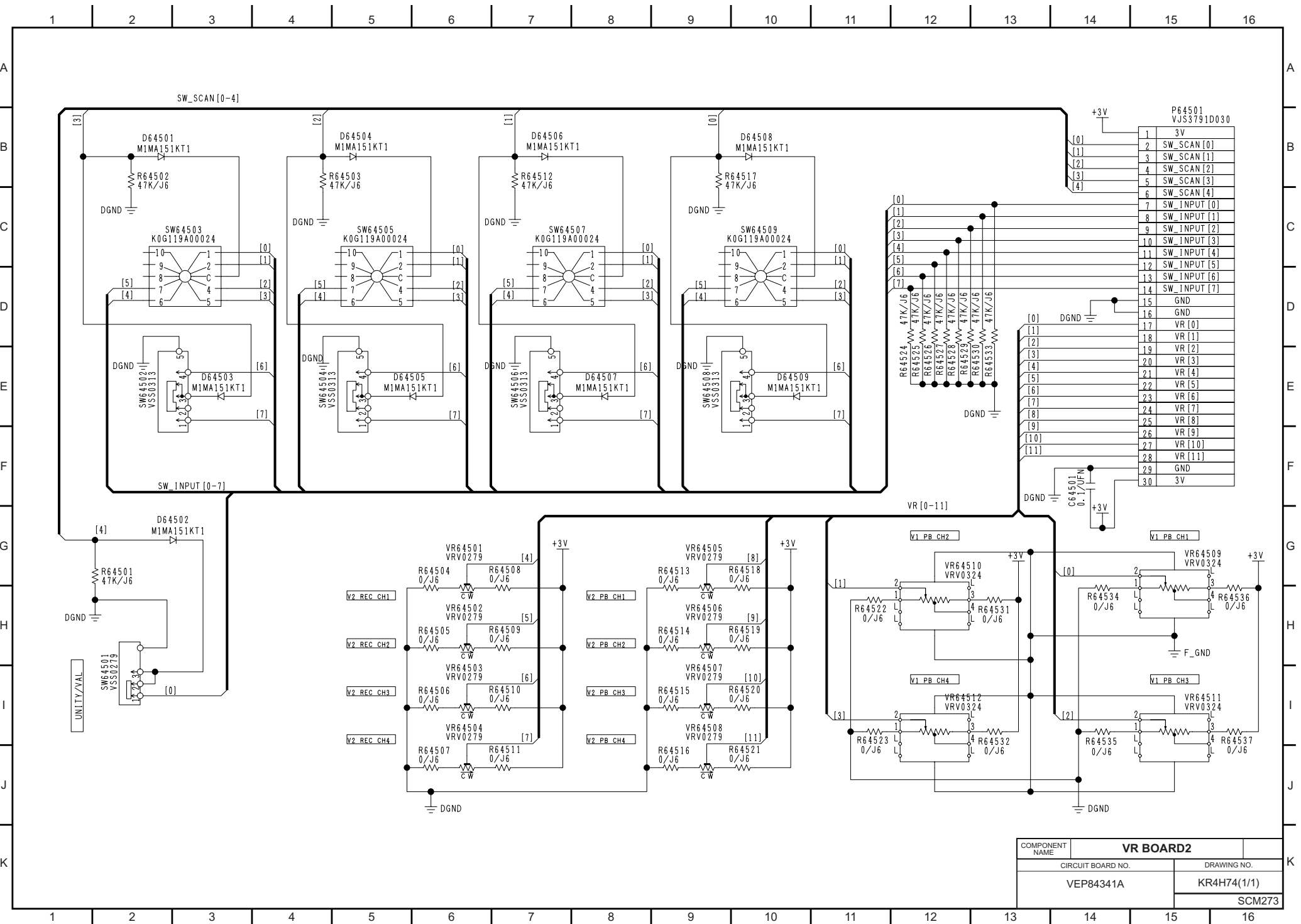
COMPONENT NAME	TOP_SW	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B25A		KR0M68(1/1)
		SCM271





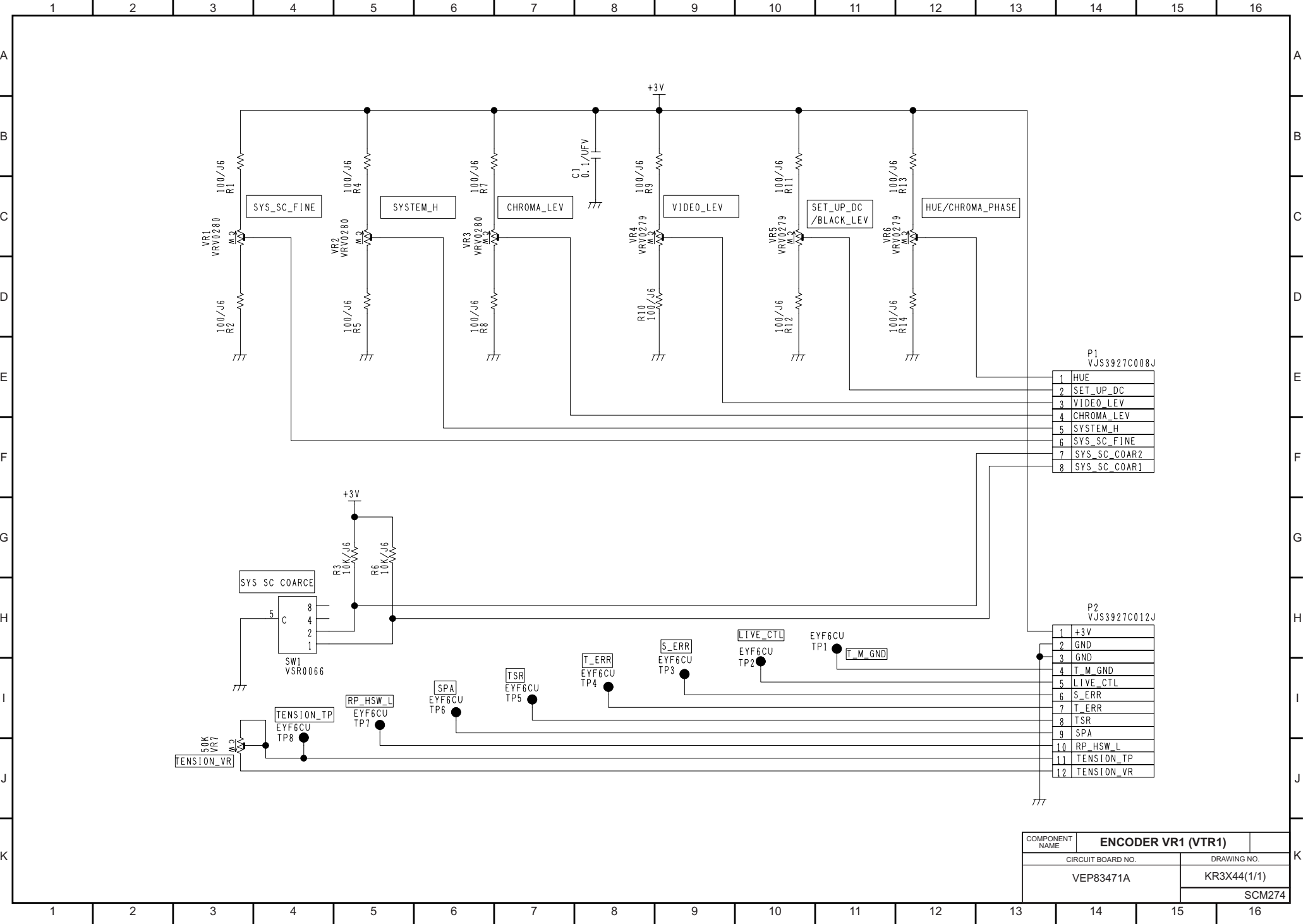
COMPONENT NAME	VR BOARD1	
	CIRCUIT BOARD NO.	DRAWING NO.
	VEP84340A	KR4H73(1/1)
		SCM272





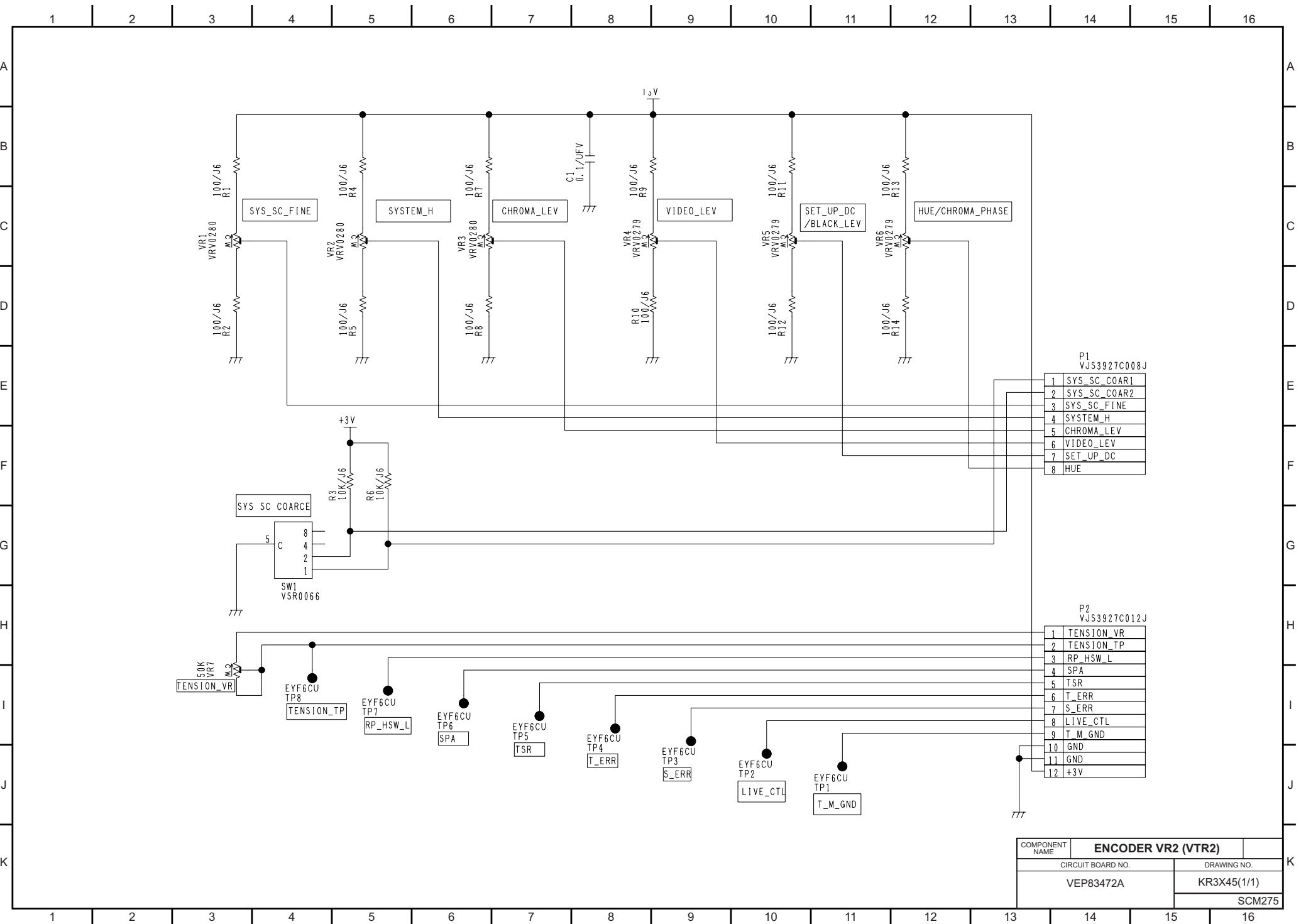
VR BOARD2	
CIRCUIT BOARD NO.	DRAWING NO.
VEP84341A	KR4H74(1/1)
SCM273	





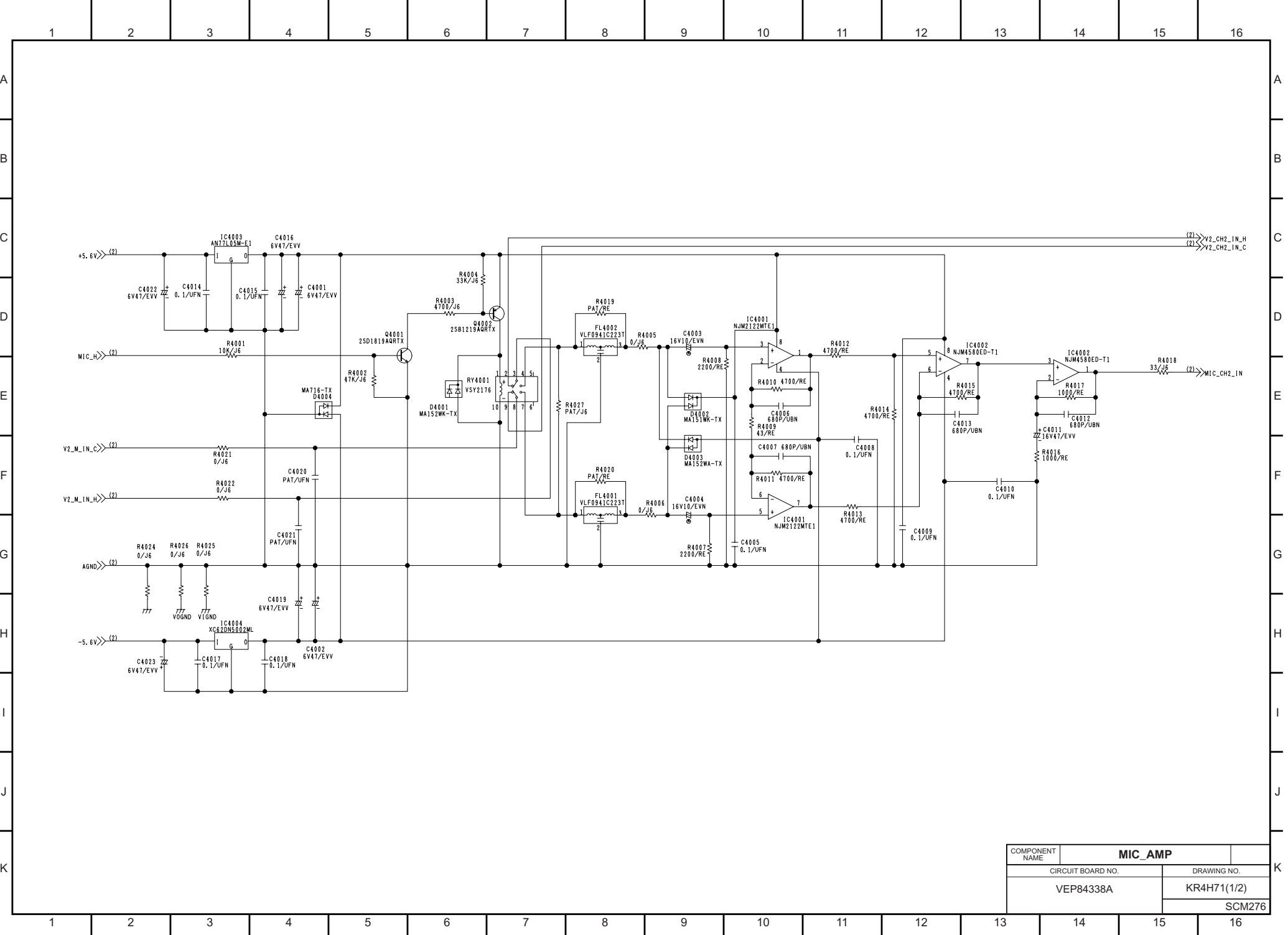
COMPONENT NAME		ENCODER VR1 (VTR1)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83471A		KR3X44(1/1)	
		SCM274	





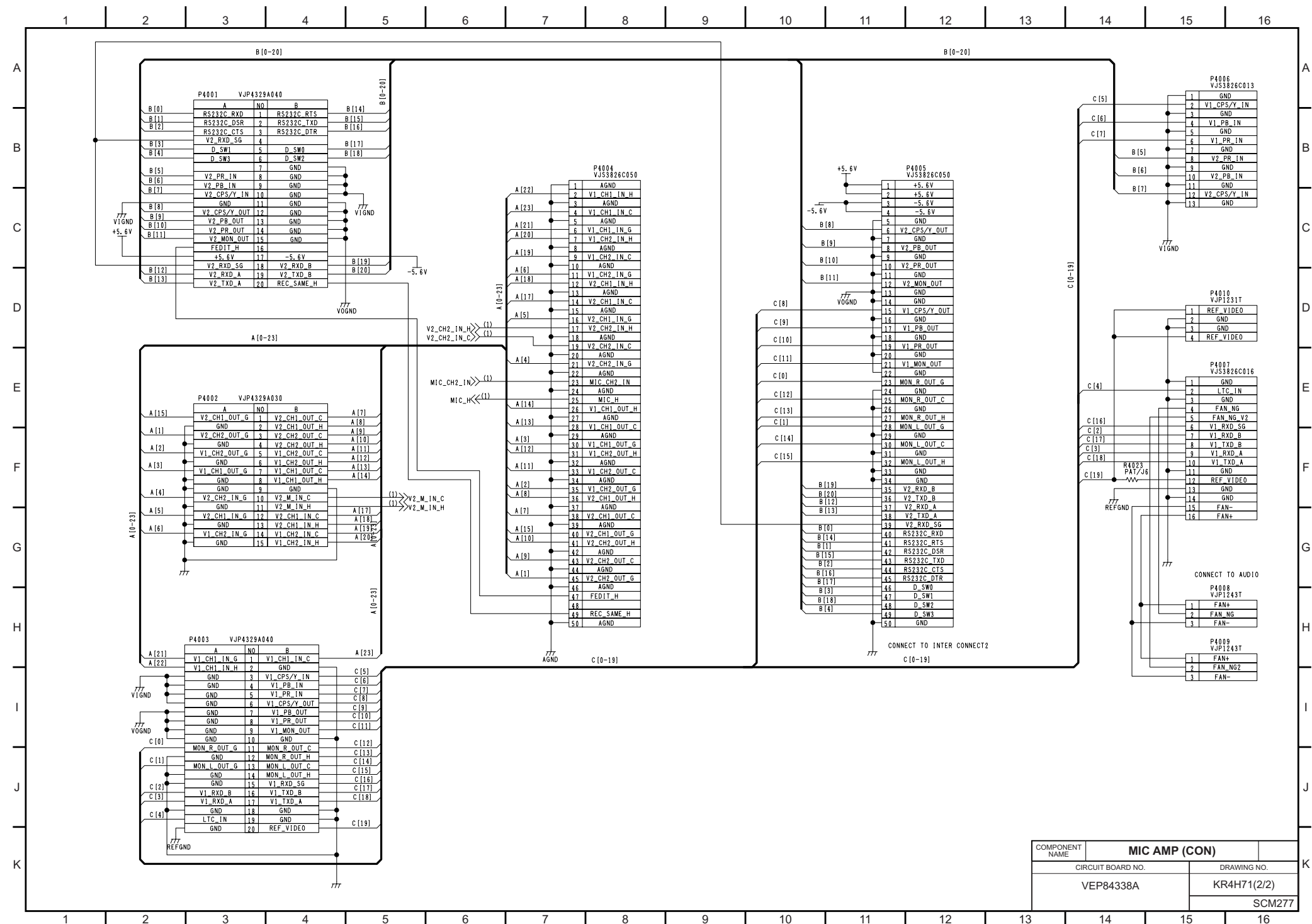
COMPONENT NAME		ENCODER VR2 (VTR2)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83472A		KR3X45(1/1)	
		SCM275	





COMPONENT NAME	MIC_AMP	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84338A		KR4H71(1/2)
		SCM276





COMPONENT NAME	MIC AMP (CON)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84338A	KR4H71(2/2)	
	SCM277	



P69201 VJP1883T	
KEY_SCAN0	1
KEY_SCAN1	2
KEY_SCAN2	3
KEY_SCAN3	4
KEY_IN6	5
KEY_IN7	6
BRIGHT_REF	7
BRIGHT_L	8
BRIGHT_GND	9
TOP_LED	10
GND	11
	12

BRIGHTNESS  
VRV0270  
VR69201

BACKLIGHT  
OFF DARK LIGHT

SW69201  
VSS0162

D69201  
MA165

COUNTER MODE  
UB TC CTL

SW69203  
VSS0162

D69202  
MA165

COUNTER/REMAIN

1 4  
2 3

SW69202  
EVQGSB04B

D69203  
MA165

RESET

1 4  
2 3

SW69205  
EVQGSB04B

D69204  
MA165

NORM/FINE

1 4  
2 3

SW69204  
EVQGSB04B

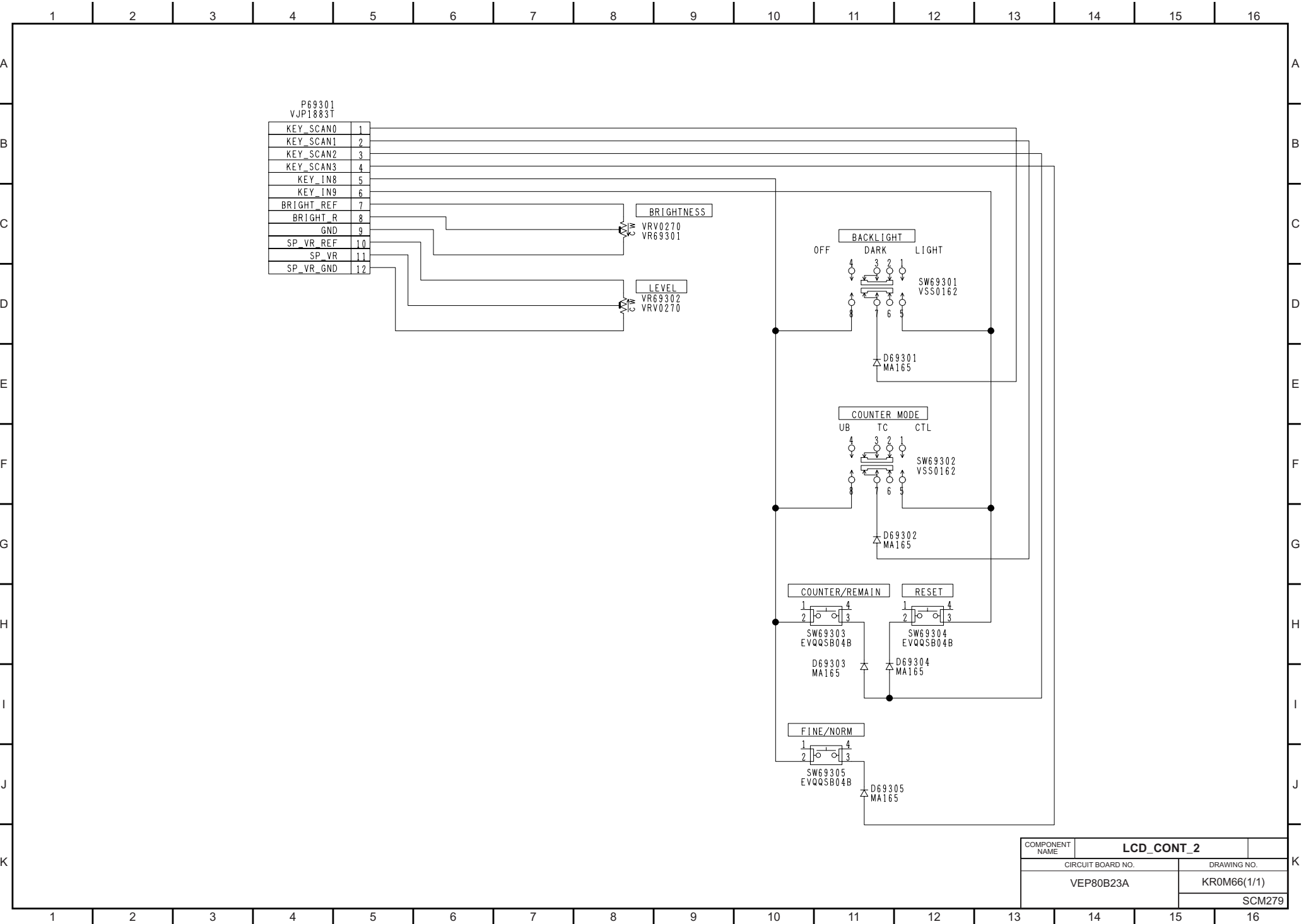
D69205  
MA165

P69202  
VJP1874T

1	TOP_LED
2	GND
3	GND

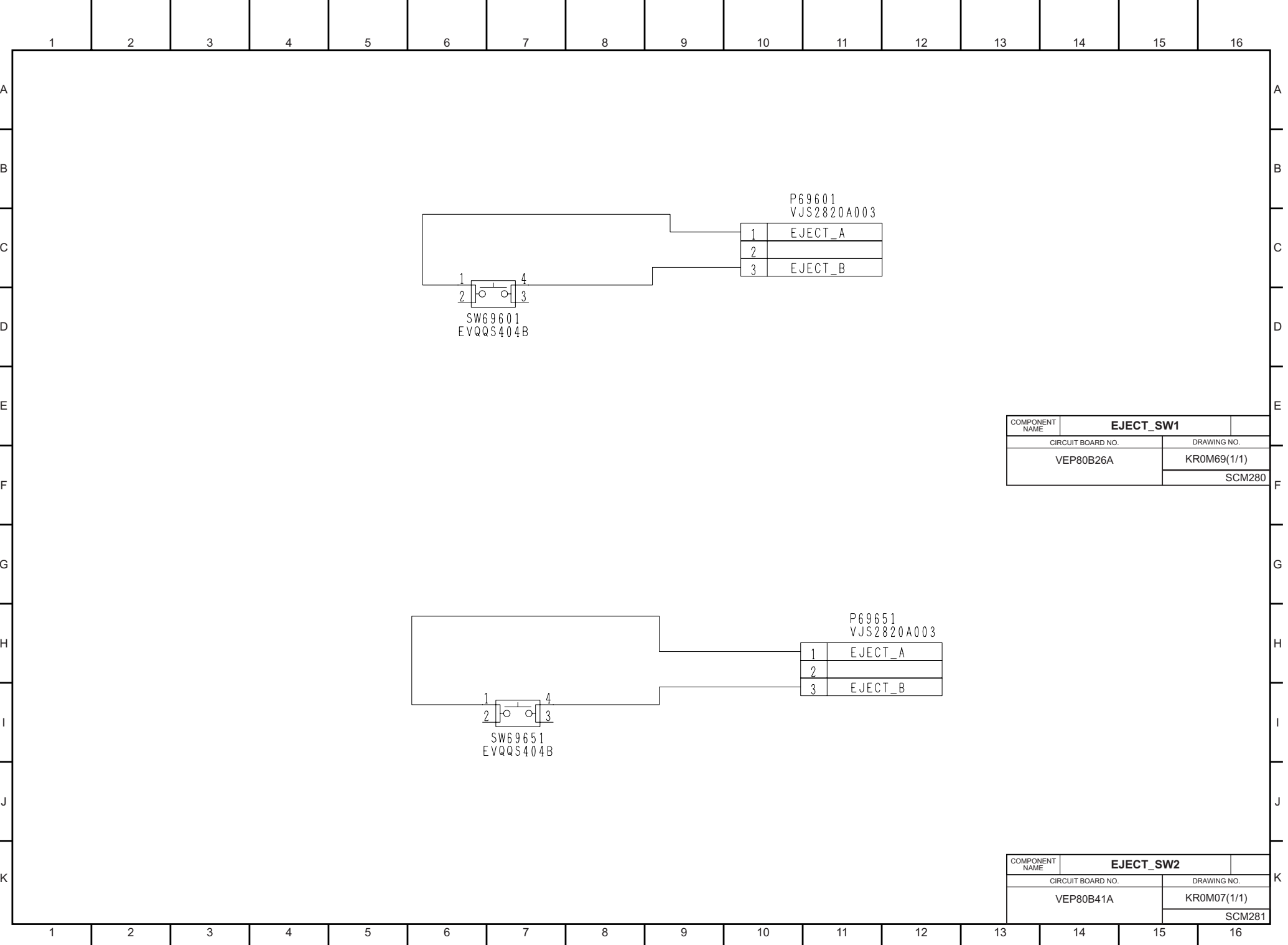
COMPONENT NAME	LCD_CONT_1	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B22A		KR0M65(1/1)
SCM278		





COMPONENT NAME	LCD_CONT_2	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B23A		KR0M66(1/1)
SCM279		

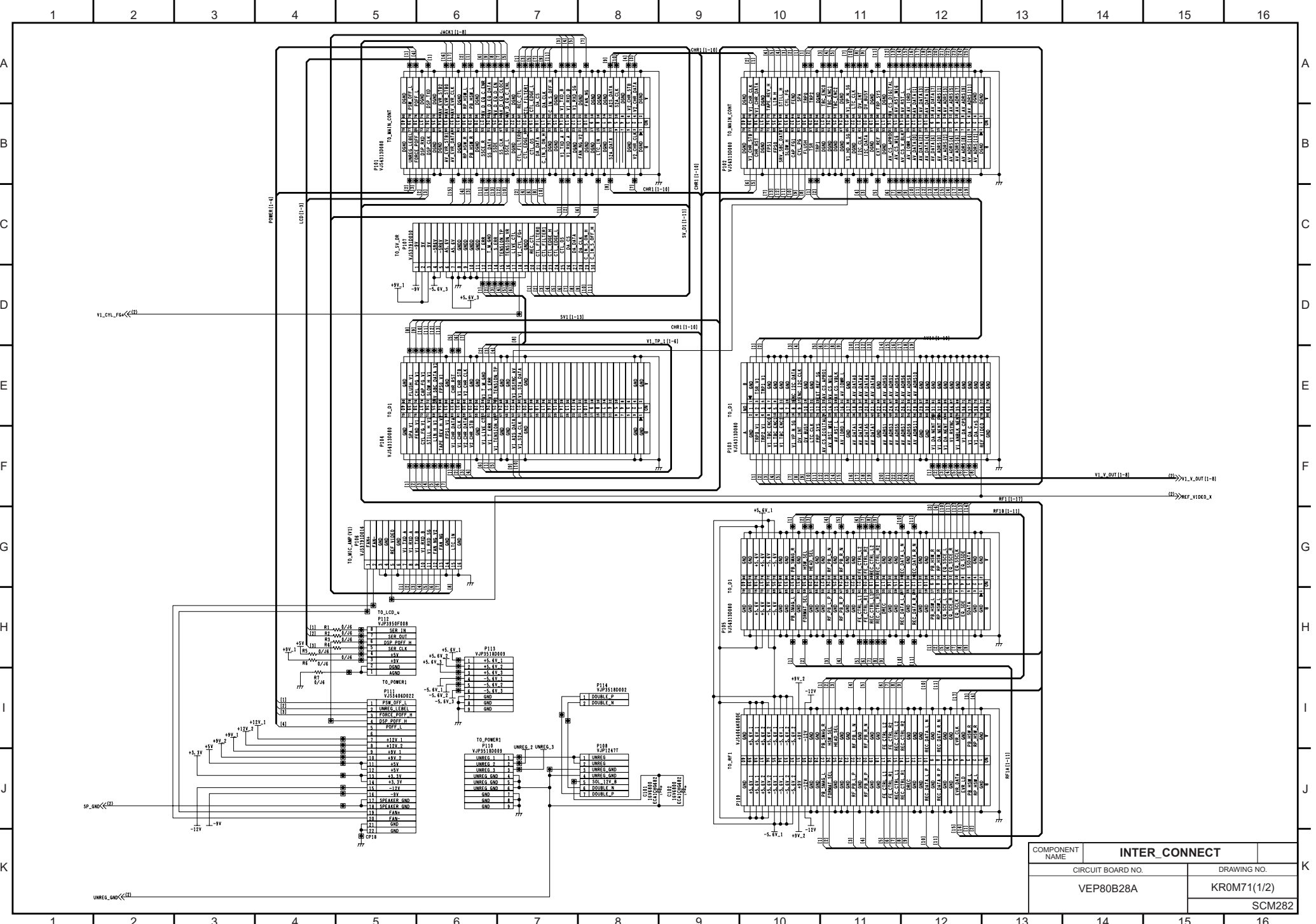




COMPONENT NAME	EJECT_SW1	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B26A		KR0M69(1/1)
		SCM280

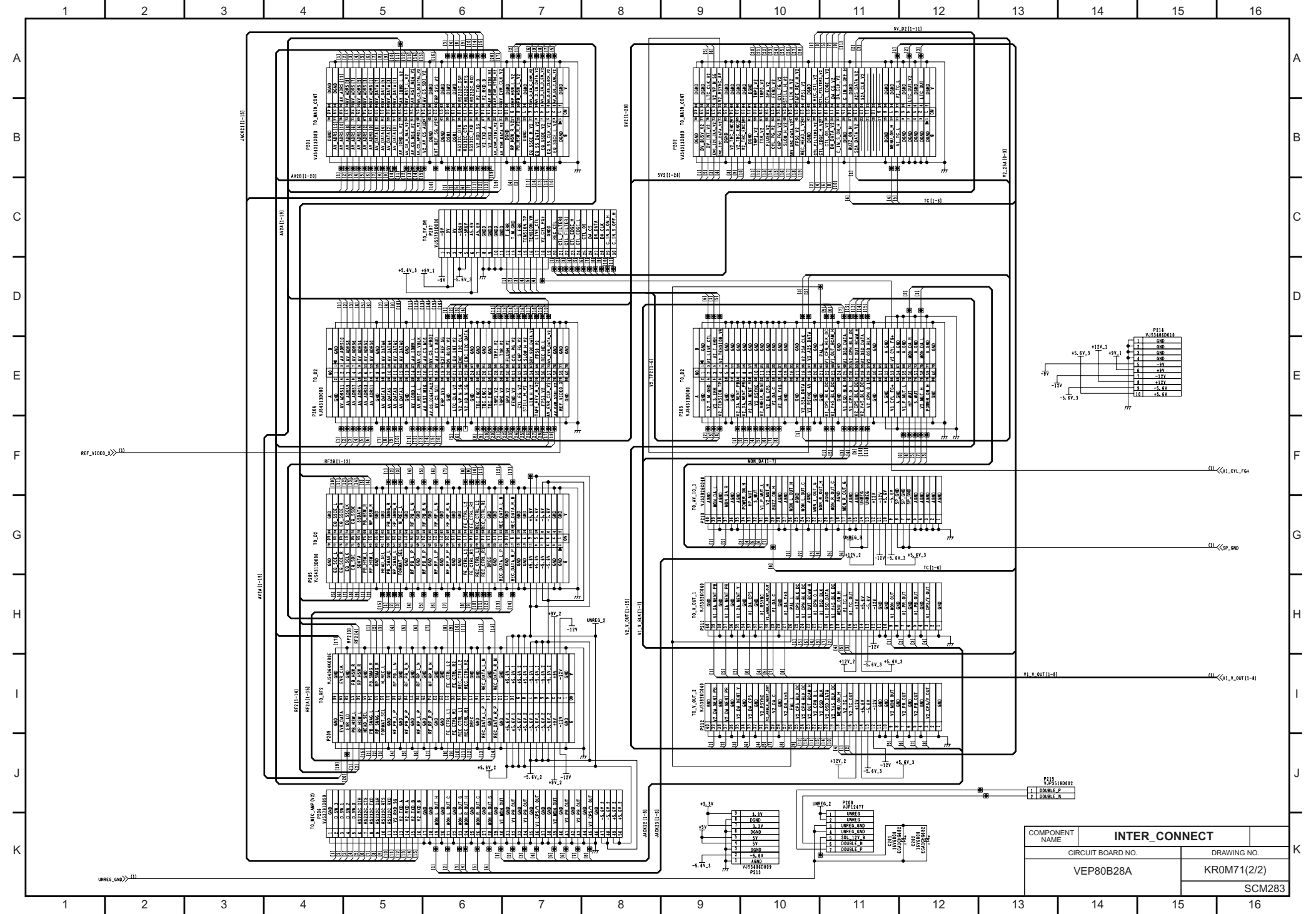
COMPONENT NAME	EJECT_SW2	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B41A		KR0M07(1/1)
		SCM281





COMPONENT NAME		INTER_CONNECT	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP80B28A		KR07M1(1/2)	
		SCM282	







# SECTION 8

## EXPLODED VIEWS & REPLACEMENT PARTS LISTS

Note:

- \*Be sure to make your orders of replacement parts according to this list.
- Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS ( $\mu$ F), P= $\mu$ F.
- The P.C. Board untils marked with "■" shown below the main assembled parts.
- The parts marked with (E) on the exploded view show the electric parts.
- IMPORTANT SAFETY NOTICE**  
Components identified with the mark  $\Delta$  have the special characteristics for safety. When replacing any of these components, use only the same type.
- The marking (RTL) indicates the retention time is limited for this item.  
After the diacontinuation of this assembly in production, it will no longer be available.

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<b>Chassis Frame Assembly (1)</b> .....	<b>PRT-1</b>
<b>Chassis Frame Assembly (2)</b> .....	<b>PRT-3</b>
<b>Chassis Frame Assembly (3)</b> .....	<b>PRT-5</b>
<b>Sub Chassis Assembly</b> .....	<b>PRT-7</b>
<b>Mechanical Chassis Assembly (1)</b> .....	<b>PRT-9</b>
<b>Mechanical Chassis Assembly (2)</b> .....	<b>PRT-11</b>
<b>Cassette Compartment Assembly</b> .....	<b>PRT-13</b>
<b>Packing Parts Assembly</b> .....	<b>PRT-15</b>
<b>Cable Connection</b> .....	<b>PRT-18</b>
<b>Electrical Replacement Parts List</b> .....	<b>PRT-19</b>

## SERVICING FIXTURES & TOOLS

Ref.No	Part No.	Part Name & Description	Pcs	Remarks	Ref.No	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145A	BACK TENSION METER	1		21	VFK1178	HEX DRIVER (0.89MM)	1	
2	VFK1149A	POST DRIVER	1		22	VFK1179	HEX DRIVER (0.71MM)	1	
3	VFK71A	DIAL TORQUE GAUGE	1		23	VFK1190	HEX WRENCH (1.5MM)	1	
4	VFK1191A	DIAL TORQUE GAUGE	1		24	VFK1209A	TORQUE DRIVER	1	
5	VFK1152	GORQUE GAUGE ADAPTOR	1		25	VFK1375	TORQUE DRIVER ADAPTOR (1.5M)	1	
6	VFK0357	ECCENTRIC SCREWDRIVER	1		26	VFK1300	A/D BOARD (DAQ-12.QUATECH)	1	
7	VFK1154	POST HIGHT TOOL	1		27	VFM3680KM	ALIGNMENT TAPE (NO.1)	1	
8	VFK1153	MECH NEWTRAL PLATE	1		28	VFM3681KM	ALIGNMENT TAPE (NO.2)	1	
9	VFK1208	NEWTRAL POSITION TOOL	1		29	VFM3682KM	ALIGNMENT TAPE (NO.3)	1	
10	VFK1156	NEWTRAL POSITION TOOL	1		31	VFM3010EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	
11	VFK1155	NEWTRAL POSITION TOOL	1		32	VMF3000EDS	DV ALIGNMENT TAPE (LISTA)	1	
12	VFK1150	NUT DRIVER (5.2MM)	1		33	AJ-CL12MP	CLIEANING TAPE	1	
13	VFK1151	NUT DRIVER (2.5MM)	1		34	VFK1369	TAPE SENSOR ADJ CASS	1	
14	VFK1188A	DIAL TENSION GAUGE	1		35	VFK1481A	LISTA SOFT	1	
15	VFK0948A	CHECK LIGHT	1		37	VFK0338	TRIMMER ADJUSTMENT DRIVER	1	
16	VFK0749	FROIRAL GREASE	1		38	VFK0337	PHILIPS DRIVER	1	
17	M0R265	MORLYTONE GREASE	1		39	VFM3000EDS	DV ALIGNMENT TAPE (LISTA)	1	
18	VFK1146	PHILIPS DRIVER	1		39	VFK1503	SERVO VERSION UP SOFT	1	
19	VFK1147	SCREW DRIVER	1		40	VFK0906	OIL	1	
20	VFK1148	HEX DRIVER (1.5MM)	1						

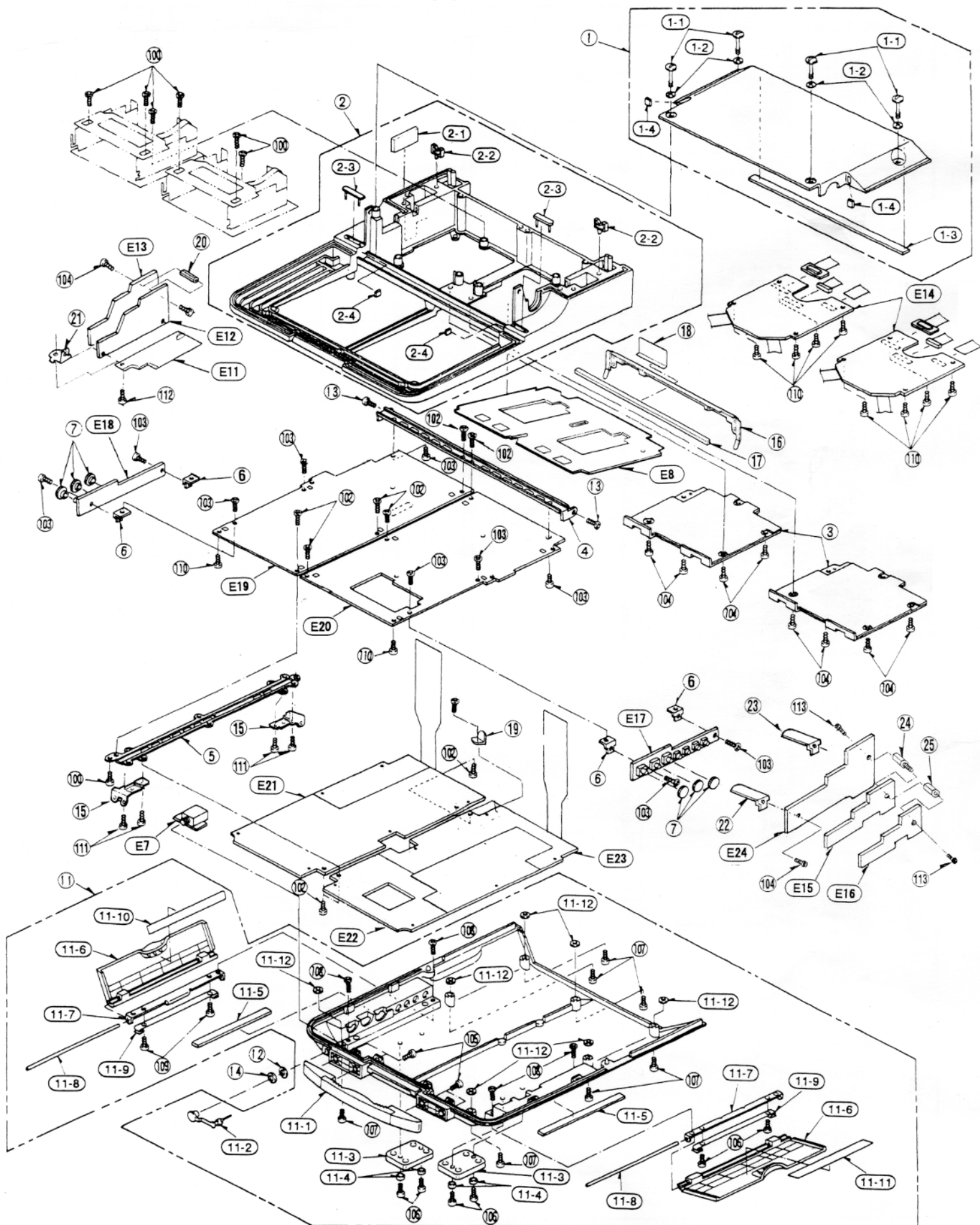


CHASSIS FRAME ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
					E16	VEP83470A	V OUT 2 P.C.BOARD	1	
1	VYK9690	TOP CASE ASS'Y	1		E17	VEP83471A	ENCODER VR 1 P.C.BOARD	1	
1-1	VHD0820	SCREW	4		E18	VEP83472A	ENCODER VR 2 P.C.BOARD	1	
1-2	VMX1090	SPACER	4		E19	VEP83473A	DIGITAL 1 P.C.BOARD	1	
1-3	VMX2663	TOP SPACER GUM	1		E20	VEP83474A	DIGITAL 2 P.C.BOARD	1	
1-4	VMG1054	LCD STOPPER GUM	2		E21	VEP83475A	AUDIO PROC&SDI P.C.BOARD	1	
2	VYK9689	CASE ASS'Y	1		E22	VEP83482A	SG P.C.BOARD	1	
2-1	VMZ2712	BRAKER CAP	1		E23	VEP84336A	AUDIO VIDEO P.C.BOARD	1	
2-2	VJF1302	CLAMPER	2		E24	VEP84337A	AV I/O P.C.BOARD	1	
2-3	VMG1047	KEYBOARD DRIPROOF	2		E29	VEP84344A	AD/VD SUB P.C.BOARD	1	
2-4	VMT0829	BODY DRIPPROOF SHEET	2						
2-5	VMT1117	CUSHION (C)	1						
2-6	VMT1129	CUSHION (L)	1						
2-7	VMT1130	CUSHION (R)	1						
3	VYF2637	MECHA COVER	2						
4	VMP6222	P.C.B. HOLDER ANGLE (A)	1						
5	VMP6223	P.C.B. HOLDER ANGLE (B)	1						
6	VMP6344	SUB P.C.B. HOLDER ANGLE	4						
7	VXU1457	VR KNOB ASS'Y	6						
11	VYK9691	BOTTOM CASE (1) ASS'Y	1						
11-1	VKH0382	HANDLE	1						
11-2	VMG0386	HEAD PHONE CAP	1						
11-3	VKA0151	FOOT (B)	2						
11-4	VMX2207	SPACER	4						
11-5	VMT0819	DOOR CUSHION	2						
11-6	VKF3107	DOOR	2						
11-7	VMP5296	DOOR HOLDER ANGLE	2						
11-8	VMS6174	DOOR SHAFT	2						
11-9	VMC1552	DOOR SPRING	2						
11-10	VGH4050	DOOR NAME PLATE (L)	1						
11-11	VGH4051	DOOR NAME PLATE (R)	1						
11-12	VMX1558	NYLON WASHER	7						
12	VMX0531	CLATCH SPACER	1						
13	VHD0325	SCREW	2						
14	VHN0194	SPACER	1						
15	VMP6219	AXIS SUPPORT ANGLE	2						
16	VMP6220	BACK UP ANGLE	1						
17	VJF1406	EDGING	1						
18	VMZ3053	FLEX COVER SHEET	1						
19	VMP6221	AV HOLD ANGLE	1						
20	VMX2998	SPACER	3						
21	VMP5298	SAUB P.C.B. HOLDER ANGLE	2						
22	VMP6225	AV/IO ANGLE (2)	1						
23	VMP6224	AV/IO ANGLE (1)	1						
24	VMS6769090	SPACER	3						
25	VMS4295	GUIDE PIN	3						
26	VMT0884	GASKET	2						
27	VMT0885	GASKET	2						
28	VMG0832	SHIELD TUBE	1						
100	XYN3+C8	SCREW	7						
101	XYN3+E8RS	SCREW	2						
102	XTV3+8FR	SCREW	9						
103	XYE3+EF8FR	SCREW	14						
104	XYN3+K8	SCREW	16						
105	XYN4+F14	SCREW	4						
106	XSB3+6FZ	SCREW	4						
107	XSB3+10FZ	SCREW	7						
108	XTV3+5F	SCREW	4						
109	XQN2+A3	SCREW	4						
110	XYN26+K6	SCREW	8						
111	XYN3+C6	SCREW	2						
112	XTV3+8F	SCREW	4						
113	XYN3+K6	SCREW	6						
E7	VEP80B27A	FRONT JACK P.C.BOARD	1						
E8	VEP80B28A	INTER CONNECTION P.C.B.	1						
E11	VEP81194A	POWER 1 P.C.BOARD	1						
E12	VEP81195A	POWER 2 P.C.BOARD	1						
E13	VEP81196A	POWER 3 P.C.BOARD	1						
E15	VEP83469A	V OUT 1 P.C.BOARD	1						



## CHASSIS FRAME ASSEMBLY(1)



PRT-2

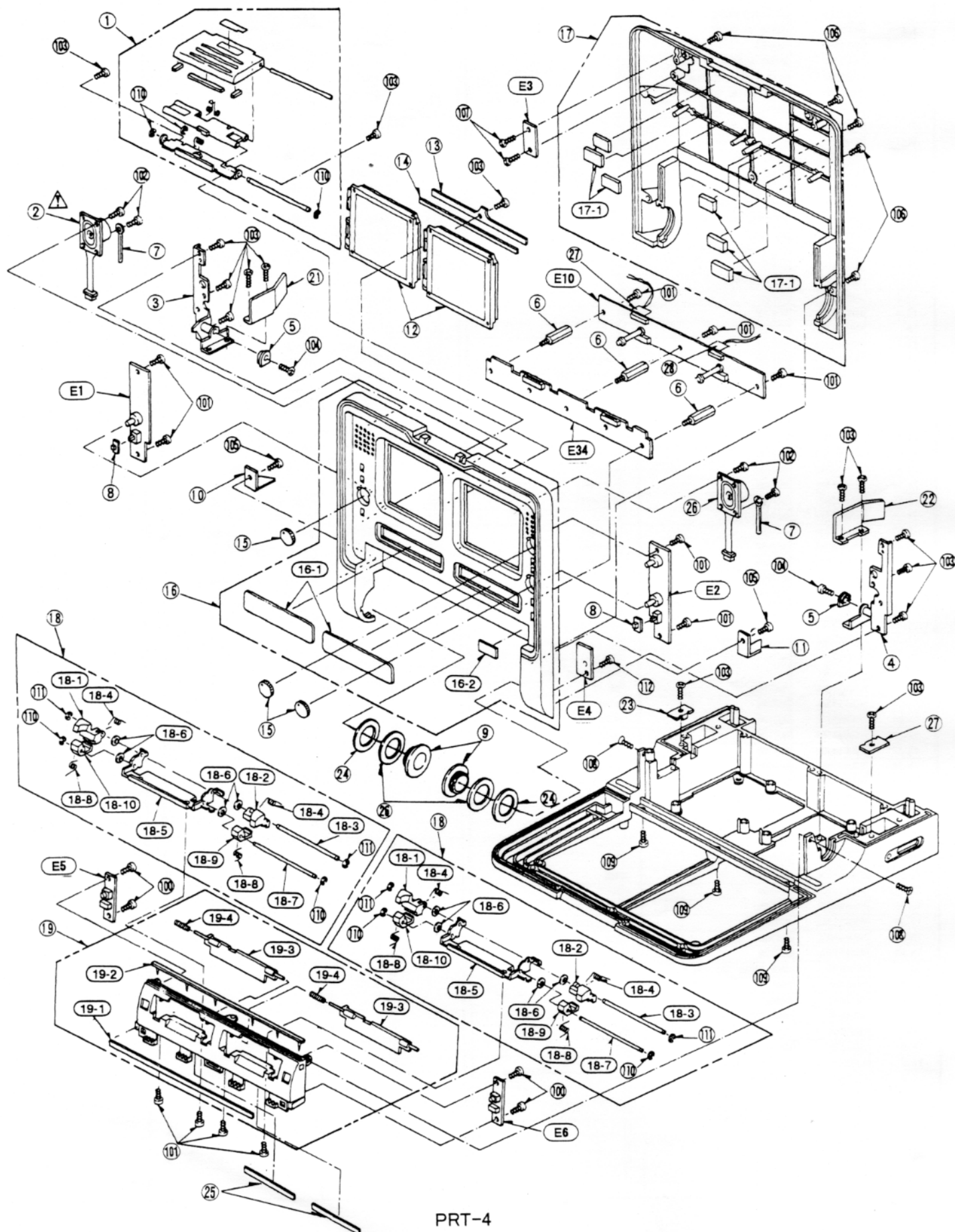


CHASSIS FRAME ASSEMBLY (2)


Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
					E34	VEP86292A	DISPLAY P.C.BOARD	1	
1	VYQ1869	BACKLE ASS'Y	1						
2	VEK8974	V1 SPEAKER	2						
3	VYQ1503	TURNING ANGLE (L)	1						
4	VYQ1504	TURNING ANGLE (R)	1						
5	VMX2652	EDGE SPACER	2						
6	VMS6175	P.C.B. POST	3						
7	VJF1034	CLAMPER	2						
8	VGU7465	SLIDE KNOB	2						
9	VMX2642	DRIPPROOF RING	2						
10	VMZ2704	INSULATION SHEET (L)	1						
11	VMZ2705	INSULATION SHEET (R)	1						
12	TR-LM7WSIVS	LCD UNIT	2						
13	VMP5294	LCD MOUNT ANGLE	1						
14	VMTO815	LCD HOLDER ANGLE CUSHION	1						
15	VXU1457	VR KNOB ASS'Y	3						
16	VYP6977	LCD PANEL (1) ASS'Y	1						
16-1	VGM1353	LCD PANEL	1						
16-2	VKW2340	COUNTER WINDOW	2						
16-3	VGB0460	DVCPRO BADGE	1						
17	VYF2725	LCD COVER (1) ASS'Y	1						
17-1	VMTO91	LCD HOLDER CUSHION	7						
18	VYQ1653	CASSETTE GUIDE ASS'Y	2						
18-1	VGQ4009	CASSETTE GUIDE (L)	2						
18-2	VGQ4010	CASSETTE GUIDE (R)	2						
18-3	VMS5864	CASSETTE COVER	2						
18-4	VMB2922	CASSETTE GUIDE SPRING	4						
18-5	VMP4863	CASSETTE GUIDE ANGLE	2						
18-6	VMX2562	WASHER	8						
18-7	VMS6017	GUIDE CAM SHAFT	2						
18-8	VMB2986	CAM SPRING	4						
18-9	VDK0151	CASSETTE GUIDE CAM (L)	2						
18-10	VDK0152	CASSETTE GUIDE CAM (R)	2						
19	VYP7597	FRONT PANEL (1) ASS'Y	1						
19-1	VMTO883	GASKET	1						
19-2	VMG1045	TOP DRIPPROOF	1						
19-3	VKF2906	BLINDER PANEL	2						
19-4	VMB3125	BLIND SPRING	2						
20	VWJ20C6080TO	FFC	4						
21	VMP5339	CABLE GUARD ANGLE (L)	1						
22	VMP5340	CABLE GUARD ANGLE (R)	1						
23	VMP6547	CABLE HOLDER ANGLE (L)	1						
24	VMTO860	CUSHION	4						
25	VMTO880	GASKET (F)	2						
26	VEK8975	V2 SPEAKER	1						
27	VMP6548	CABLE HOLDER ANGLE (R)	1						
28	VMTO874	GASKET (E)	2						
29	VMG0832	SHIELD TUBE	1						
100	XTV3+8GFR	SCREW	4						
101	XYN3+K8	SCREW	11						
102	XSB3+6	SCREW	4						
103	XYN3+C8	SCREW	14						
104	XYN26+K8	SCREW	2						
105	XYN3+F8	SCREW	2						
106	XSB4+6FZ	SCREW	5						
107	XYN26+K8	SCREW	2						
108	XSS3+8FZ	SCREW	2						
109	XTV3+8G	SCREW	3						
110	XUC2FP	E-RING	10						
111	XUC25FP	E-RING	4						
112	XYN26+K5	SCREW	1						
E1	VEP80B22A	LCD CONTROL 1 P.C.BOARD	1						
E2	VEP80B23A	LCD CONTROL 2 P.C.BOARD	1						
E3	VEP80B24A	TOP LED P.C.BOARD	1						
E4	VEP80B25A	TOP SW P.C.BOARD	1						
E5	VEP80B26A	EJECT SW 1 P.C.BOARD	1						
E6	VEP80B41A	EJECT SW 2 P.C.BOARD	1						
E10	VEP80B35A	DISPLAY SW P.C.BOARD	1						
E33	VEP86291A	DISPLAY CONTROL P.C.BOARD	1						



# CHASSIS FRAME ASSEMBLY(2)





Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

## CHASSIS FRAME ASSEMBLY (3)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP7594	KEYBOARD PANEL (1) ASS'Y	1	
1-1	VGF0679	SLIDE VR SHEET	2	
1-2	VMT0825	GASKET	2	
1-3	VKW2341	EVENT WINDOW	1	
1-4	VGH3957	OPERATION NAME PLATE	1	
2	VGU5780	SEARCH DIAL COVER	2	
3	VGU8126	SEARCH DIAL KNOB	2	
4	VES0847	POWER SW ASS'Y	1	
5	VGU8041	SLIDE VR KNOB	4	
6	VSP1120	SEARCH DIAL	2	
7	VGU7465	SLIDE KNOB	5	
8	VMG1085	RAIN COVER RUBBER	5	
9	VGU7688	SLIDE SW COVER	5	
10	VGU7469	VR KNOB	1	
11	VGU8400	VR KNOB (B)	2	
12	VYF2401	BACK COVER ASS'Y	1	
12-1	VHD1169	SCREW	1	
12-2	VMX1558	NYLON WASHER	1	
12-3	VMW0196	CHAIN	1	
12-4	VMX1090	SPACER	1	
13	VXU1562	KEYTOP SET	1	
13-1	VGU8533AA	BUTTON	1	EVENT
13-2	VGU8533AB	BUTTON	1	IN(LAST X)
13-3	VGU8533AC	BUTTON	1	OUT(LAST ED)
13-4	VGU8533AD	BUTTON	1	DUR(TOTAL)
13-5	VGU8533AE	BUTTON	1	7(SET UP)
13-6	VGU8533AF	BUTTON	1	8
13-7	VGU8533AG	BUTTON	1	9(INFO)
13-8	VGU8533AH	BUTTON	1	• (F/TC)
13-9	VGU8533AJ	BUTTON	1	4(LIST)
13-10	VGU8533AK	BUTTON	1	5(CORCT)
13-11	VGU8533AL	BUTTON	1	6(TRACK)
13-12	VGU8533AM	BUTTON	1	-(BS)
13-13	VGU8533AN	BUTTON	1	1(DUMP)
13-14	VGU8533AP	BUTTON	1	2(LOAD)
13-15	VGU8533AQ	BUTTON	1	3(T SET)
13-16	VGU8533AR	BUTTON	1	+(FS)
13-17	VGU8533AS	BUTTON	1	0(DISP)
13-18	VGU8533AT	BUTTON	1	C(EXIT)
13-19	VGU8533AU	BUTTON	1	ENTER(RETURN)
13-20	VGU8533BA	BUTTON	1	GO TO(GO TO OUT)
13-21	VGU8533BB	BUTTON	1	AUTO EDIT(MULTI)
13-22	VGU8533BC	BUTTON	1	PREVIEW(REVIEW)
13-23	VGU8533BD	BUTTON	1	SPLIT
13-24	VGU8533BE	BUTTON	1	VTR1
13-25	VGU8533BF	BUTTON	1	VTR2
13-26	VGU8533BG	BUTTON	1	MARK IN
13-27	VGU8533BH	BUTTON	1	MARK OUT
13-28	VGU8533BJ	BUTTON	1	SHIFT
13-29	VGU8533BK	BUTTON	1	ALL STOP
13-30	VGU8533CA	BUTTON	1	ASMBL(1ST EDIT)
13-31	VGU8533CB	BUTTON	1	V
13-32	VGU8533CC	BUTTON	1	A1(A3)
13-33	VGU8533CD	BUTTON	1	A2(A4)
13-34	VGU8533CE	BUTTON	1	TC
13-35	VGU8533CF	BUTTON	1	REC
13-36	VGU8533CG	BUTTON	1	EDIT
13-37	VGU8533CH	BUTTON	1	PLAY(STOP)
13-38	VGU8533CJ	BUTTON	1	STILL(STB OFF)
13-39	VGU8533CK	BUTTON	1	REW
13-40	VGU8533CL	BUTTON	1	FF
14	VEJ1930	JACK PANEL (1) ASS'Y	1	
14-1	VKA0304	FOOT	4	
14-2	VMX2207	SPACER	8	
14-3	VGH4378	JACK NAME PLATE (A)	1	
14-4	VMG1044	FAN MOTOR VIBRATION PROOF GUM	8	
14-5	VMX1558	NYLON WASHER	4	
14-6	VJS3462	CONNECTOR (FEMALE)	1	
14-7	VKF0834	EAR PHONE JACK	1	
15	VGU7152	SLIDE SW COVER B	1	
16	VMG0947	SLIDE KNOB RUBBER	1	
17	VRF0193	FAN MOTOR	2	
18	VMG1044	FAN MOTOR VIBRATION PROOF GUM	16	
19	VMP5295	FAN MOTOR ANGLE	2	

[illegible]



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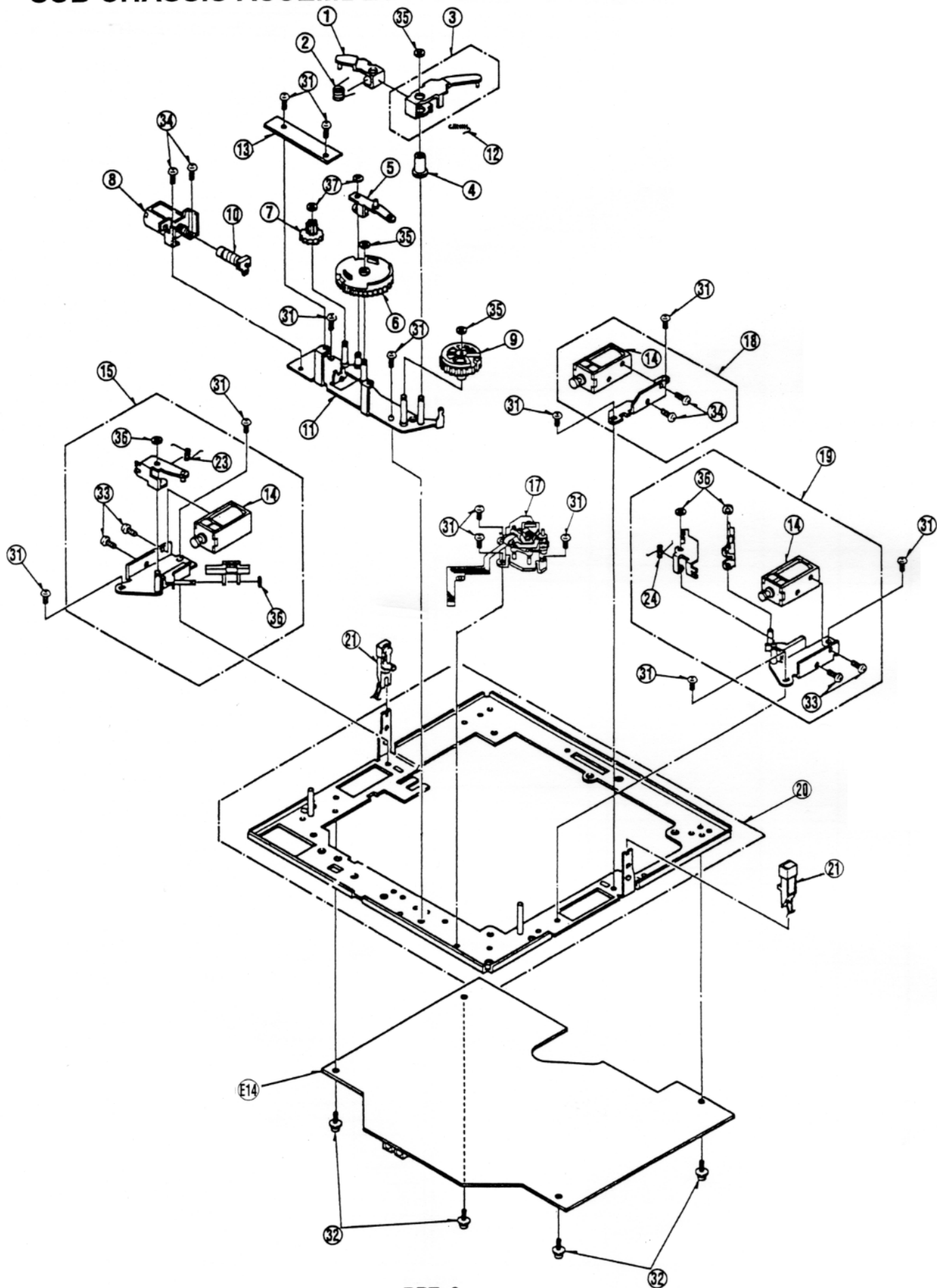




[illegible][illegible]



SUB CHASSIS ASSEMBLY






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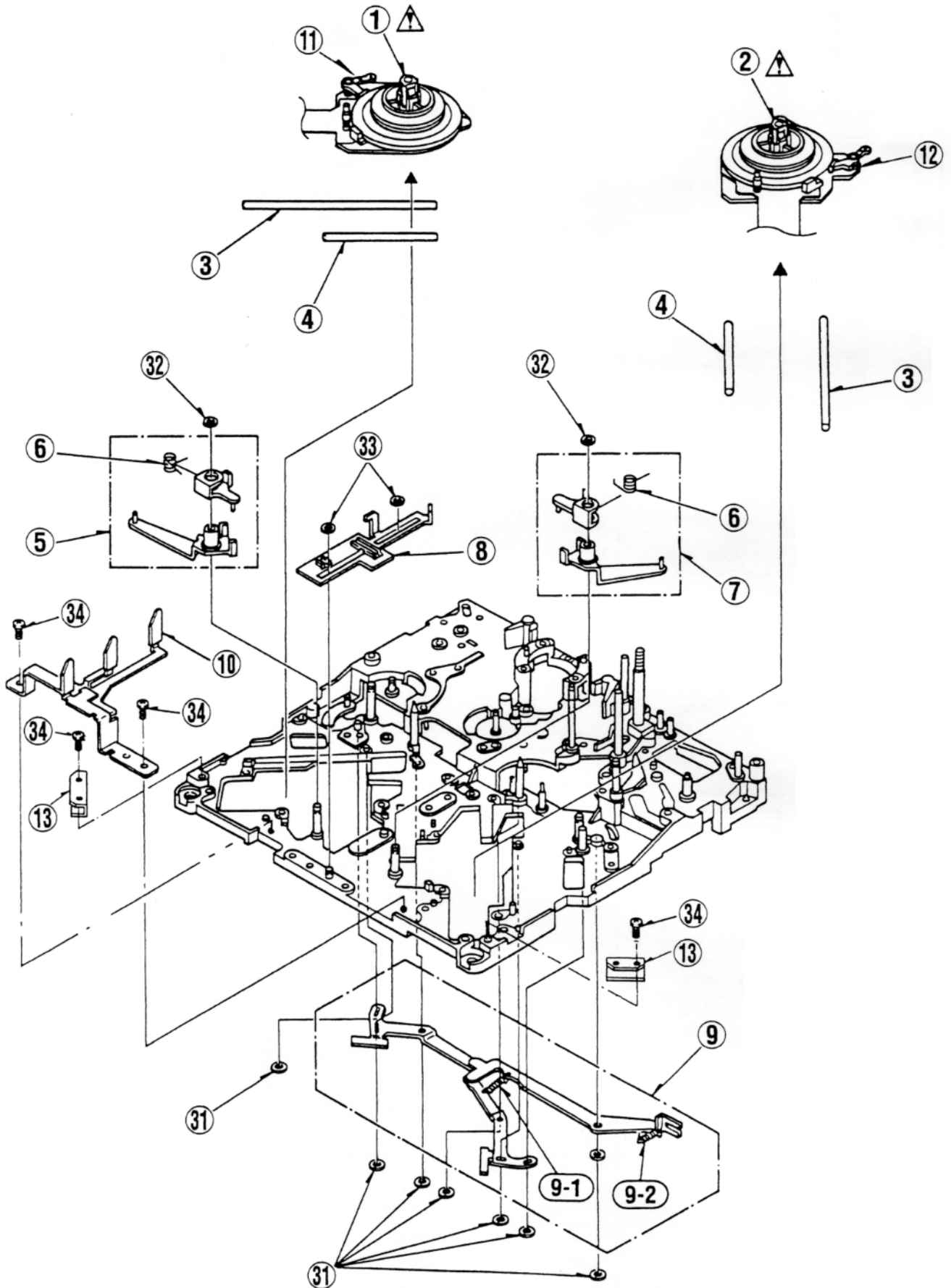
## MECHANICAL CHASSIS ASSEMBLY (1)

[illegible]




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## MECHANICAL CHASSIS ASSEMBLY(1)






Components identified with the mark  have the special characteristics for safety.  
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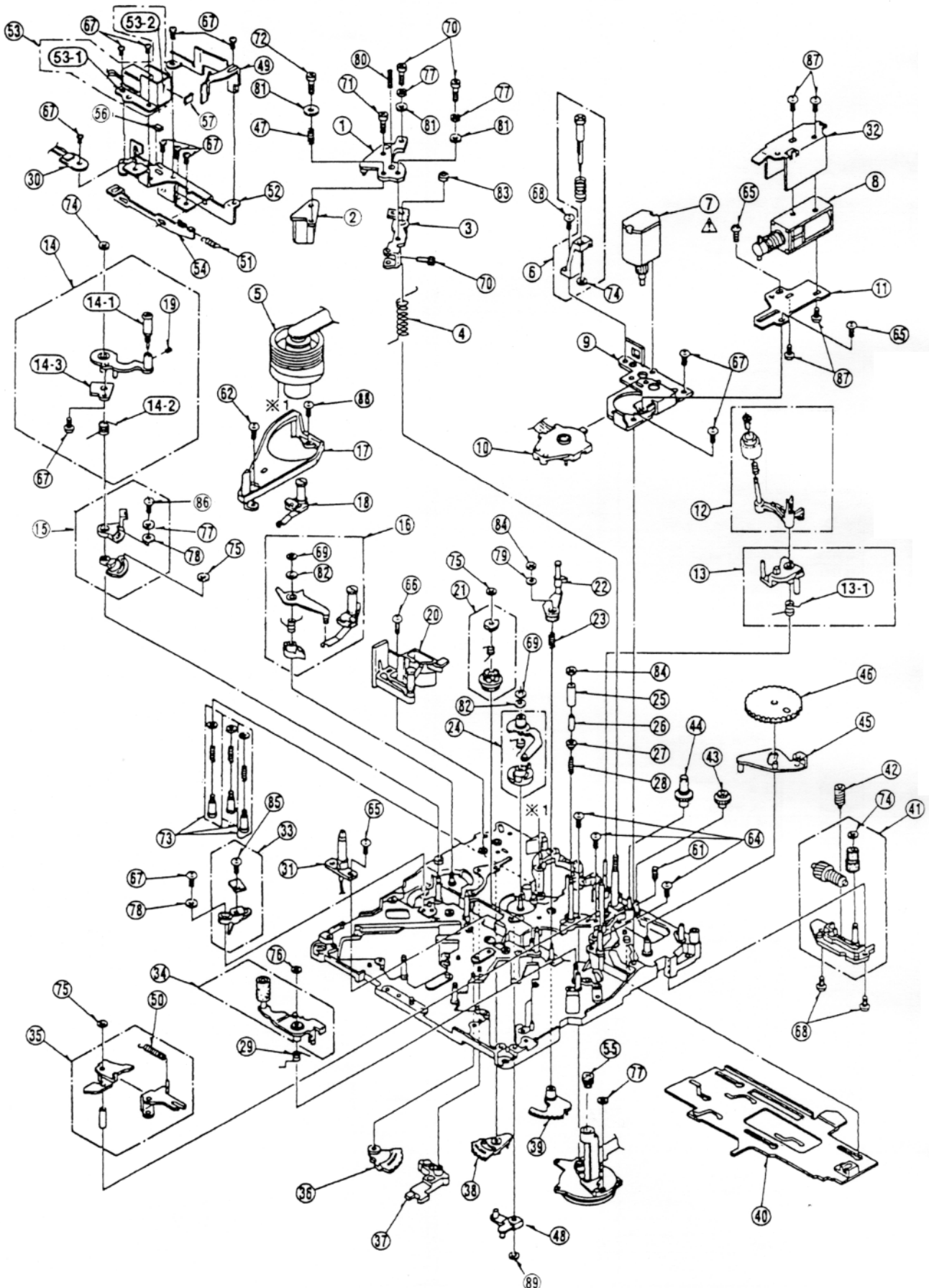
MECHANICAL CHASSIS ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
					70	XVE2B4FZ	HEX SCREW	3	
1	VXA5554	A/C HEAD BASE (1) ASS'Y	1		71	XVE2B6FP	HEX SCREW	1	
2	VED0419	A/C HEAD	1 (M)		72	XVE2B12FP	HEX SCREW	1	
3	VXA6067	A/C HEAD BASE (2) ASS'Y	1		73	VXQ0439	SCREW	3	
4	VMB2935	A/C HEAD HIGHT SPRING	1		74	VMX0967	CUT WASHER	3	
 5	VEG1501	SYLINDER UNIT	1 (M)		75	VMX1061	WASHER	3	
6	VXA5715	EMARGENCY SHIFT HOLDER ASS'Y	1		76	VMX1079	CUT WASHER	1	
 7	VEM0645	LOADING MOTOR (1)A ASS'Y	1 (M)		77	XWA2B	WASHER	4	
8	VSJ0227	PINCH SOLENOID	1 (M)		78	XWE2	WASHER	2	
9	VXA5584	MOTOR ANGLE ASS'Y	1		79	XWE16VW	WASHER	1	
10	VES0918	MODE SW ASS'Y	1 (M)		80	XXE2A6FP	HEX SCREW	1	
11	VMA0A35	PINCH SOLENOID BASE	1		81	XWG2	WASHER	3	
12	VXL3027	CLEANING ARM A ASS'Y	1 (M)		82	XWGV15Z32G	WASHER	2	
13	VXL2870	T2 ARM ASS'Y	1		83	VHD0045	NYLON NUT	1	
13-1	VMB3304	T2 ARM SPRING	1		84	VHN0312	NUT	2	
14	VXL2832	TENSION ARM A ASS'Y	1 (M)		85	XQN2+AQ3.5FZ	SCREW	1	
14-1	VXP1761	TENSION ROLLER	1		86	XQN2+AJ5	SCREW	1	
14-2	VMB3220	TENSION LEG SPRING	1		87	XQN2+A1.5	SCREW	4	
14-3	VXA6173	MAGNET HOLDER ASS'Y	1		88	XQN2+A4	SCREW	1	
15	VXA5791	TENSION LEG SPRING HOOK ASS'Y	1		89	VMX0967	CUT WASHER	1	
16	VXL2709	S1 LOADING ARM ASS'Y	1 (M)		*	VXY1538Z1	MECHANISM	1	
17	VMD3731	LOADING RAIL	1						
18	VXA6378	T1 BOAT ASS'Y	1 (M)						
19	VHD0561	HEX SCREW	1						
20	VXA6052	S POST BASE A ASS'Y	1 (M)						
21	VXP1683	T4 CONNECTION GEAR ASS'Y	1						
22	VXL2772	T4 ARM ASS'Y	1						
23	VMB2950	T4 THRUST SPRING	1						
24	VXL2952	T LOADING ARM N ASS'Y	1 (M)						
25	VMS5906	T3 UPPER FRANGE	1						
26	VMS5905	T3 SLEEVE	1						
27	VMS5904	T3 LOWER FRANGE	1						
28	VMB2929	T3 SPRING	1						
29	VMB2933	PINCH RELEASE SPRING	1						
30	VEK7927	INSULATION SENSOR	1						
31	VEK7691	LED HOLDER P.C BOARD	1						
32	VMA9411	PINCH SOLENOID ANGLE	1						
33	VXA5820	TENSION SENSOR ASS'Y	1						
34	VXL2835	PINCH ARM ASS'Y	1 (M)						
35	VXL2588	PINCH GUIDE ARM ASS'Y	1						
36	VXA5570	T SECTOR GEAR ASS'Y	1						
37	VXL2838	TENSION LEG. GUIDE ARM	1						
38	VXA5567	S SECTOR GEAR ASS'Y	1						
39	VXA5564	T4 SECTOR GEAR ASS'Y	1						
40	VXA6348KIT	MAIN ROD ASS'Y	1						
41	VXA5627	THRUST SHAFT HOLDER ASS'Y	1						
42	VDG1166	MOTOR WARM GEAR	1						
43	VDG1268	MOTOR EMARGENCY GEAR A(A)	1						
44	VDG1267	MOTOR EMARGENCY GEAR B(A)	1						
45	VXA6348KIT	MAIN CAM ARM ASS'Y	1						
46	VDG1168	MAIN CAM GEAR	1 (M)						
47	VMB2937	A/C HEAD ADJUST SPRING	1						
48	VXL2600	EJECT ARM ASS'Y	1						
49	VMD3475	T1 GUIDE ASS'Y	1						
50	VMB2934	SPRING	1						
51	VMB3051	CLEANER RETURN SPRING	1						
52	VXA6077	CLEANER BASE 1 ASS'Y	1						
53	VXA6078	CLEANER SOLENOID ASS'Y	1						
53-1	VSJ0226	CLEANER SOLENOID	1 (M)						
53-2	VMA9877	CLEANER SOLENOID BASE	1						
54	VMM0429	CLEANER INTERLOCK	1						
55	VXQ0556	THRUST SCREW ASS'Y	1 (M)						
56	VMT0871	SILENCER A	1						
57	VMT0872	SILENCER B	1						
61	VHD0356	SCREW	1						
62	XQN2+A3	SCREW	1						
64	XQN2+A35FZ	SCREW	3						
65	XQN2+AM2	SCREW	3						
66	XQN2+AM4	SCREW	1						
67	XQN2+CF3	SCREW	12						
68	XQN2+CF4	SCREW	3						
69	XUC12FP	E-RING	2						



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## MECHANICAL CHASSIS ASSEMBLY(2)



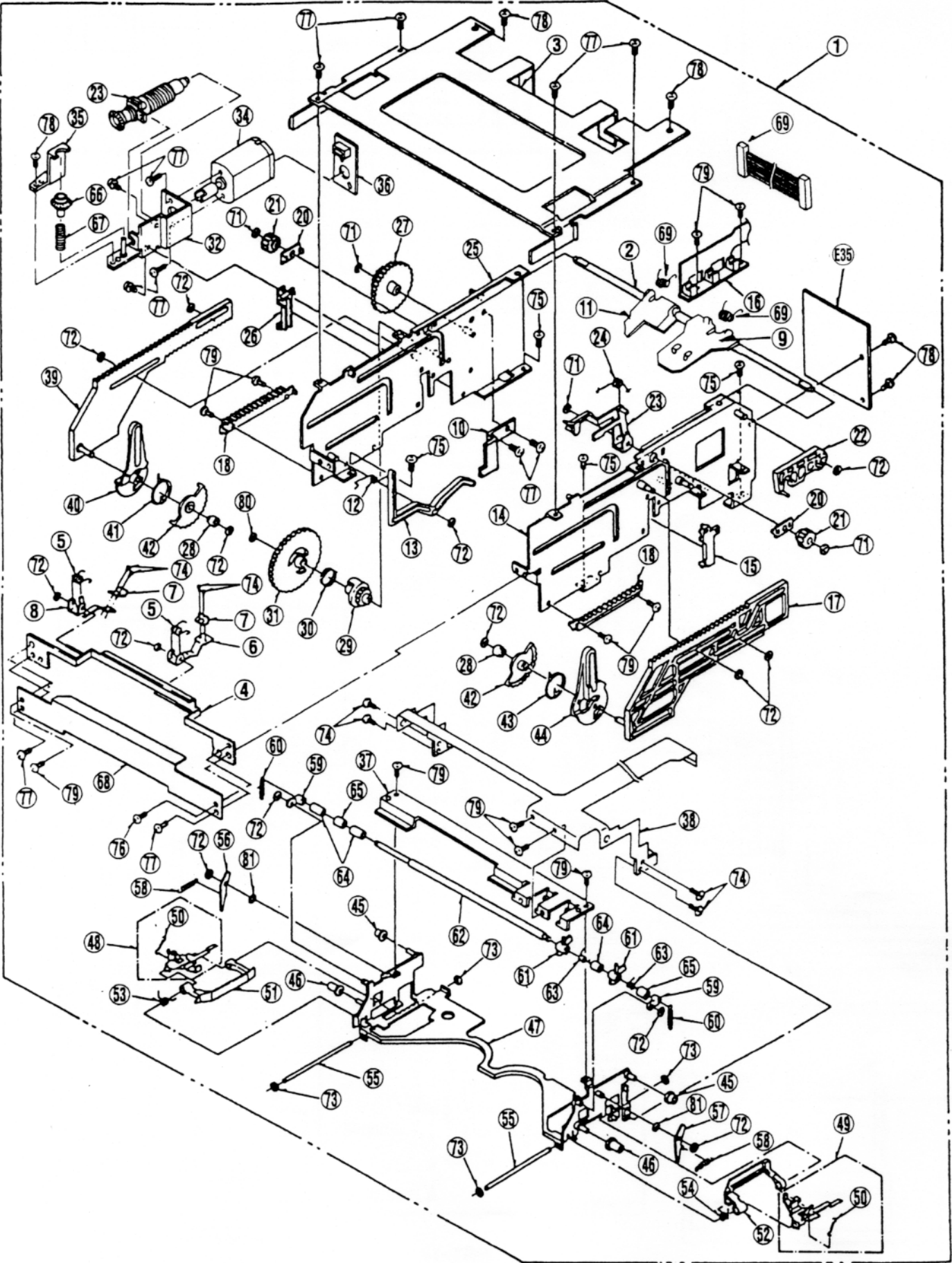


CASSETTE COMPARTMENT ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6593	CASSETTE COMPARTMENT	1 (M)		76	XQN2+A2	SCREW	2	
2	VMS5865	MAIN SHAFT	1		77	XYN2+C4	SCREW	12	
3	VMA9849	TOP PLATE	1		78	XQN2+A3	SCREW	5	
4	VXA6572	FRONT GUIDE 1 ASS'Y	1		79	LMHD16064	SCREW	10	
5	VMB3075	M GUIDE SPRING	2		80	XWGV2Y4G	WASHER	2	
6	VML3191	M GUIDE RIGHT LEVER	1		81	XWGV2Z5G	WASHER	2	
7	VML3192	M FRONT GUIDE	2						
8	VML3190	M GUIDE LEFT LEVER	1						
9	VML3397	CASSETTE PROTECT PLATE	1		E35	VEP80856A	CARRIGE P.C.BOARD	1	
10	VMA9760	L OPENER	1						
12	VMB2926	SPRING	1						
13	VML2A50	BLINDER PANEL OPENER	1						
14	VXA6074	R SIDE PLATE 1 ASS'Y	1						
15	VML3282	SUB RAIL (R)	1						
16	VEK7695	SIDE FLEXIBLE	1						
17	VXA5766	MAIN RACK R ASS'Y	1						
18	VDG1156	WIPER RACK	2						
20	VDB1395	MAIN SHAFT ANGLE	2						
21	VDG1412	INTERLOCK GEAR	2						
22	VML3193	OPENER DRIVE ARM	1						
23	VXL2692	OPENER ANGLE ASS'Y	1						
24	VMB2979	SPRING	1						
25	VXA6072	SIDE PLATE L 1 ASS'Y	1						
26	VML3281	SUB RAIL (L)	1						
27	VDG1413	INTERAMEDIATE GEAR	1						
28	VDP1643	WIPER ROLLER	2						
29	VDG1414	CLUTCH GEAR	1						
30	VMB2980	CLUTCH SPRING	1						
31	VDG1236	WORM WHEEL	1						
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1						
33	VXP1797	E.E SLOT IN WORM ASS'Y	1						
34	VXA5597	MOTOR ASS'Y	1 (M)						
35	VMA9673	EMARGENCY ANGLE	1						
36	VEK7793	MOTOR P.C.BOARD	1						
37	VMA9668	HOLDER PLATE	1						
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1						
39	VXA6075	MAIN RACK (L) ASS'Y	1						
40	VML3485	WIPER ARM (R)	1						
41	VMB3391	WIPER ARM (L)	1						
42	VDG1163	WIPER GEAR	2						
43	VMB3390	WIPER SPRING (L)	1						
44	VML3484	WIPER SPRING (R)	1						
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2						
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2						
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1						
48	VXA5758	ROD L	1						
49	VXA5759	ROD R	1						
50	VMB3064	SLIDE SPRING	2						
51	VML3249	SIDE GUIDE L	1						
52	VML3250	SIDE GUIDE R	1						
53	VMB3061	SLIDE GUIDE SPRING L	1						
54	VMB3062	SLIDE GUIDE SPRING R	1						
55	VMS6108	KICK OFF ROD SHAFT	2						
56	VML2A54	KICK OFF ARM L	1						
57	VML2A55	KICK OFF ARM R	1						
58	VMB2928	KICK OFF SPRING	2						
59	VML2A53	CASSETTE HOLDER ARM	2						
60	VMB2927	CASSETTE HOLDER SPRING	2						
61	VMX2833	M-L DETECT ROLLER	2						
62	VMS5882	CASSETTE HOLDER SHAFT	1						
63	VMB3253	M-L DETECT SPRING	2						
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3						
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	1						
66	VDG1246	EMARGENCY GEAR	1						
67	VMB3109	EMARGENCY SPRING	1						
68	VMZ2661	FRONT GUIDE COVER	1						
71	VMX0653	CUT WASHER	4						
72	VMX0967	CUT WASHER	14						
73	VMX1061	WASHER	4						
74	XQN16+A2	SCREW	8						
75	XQN2+CF3	SCREW	4						




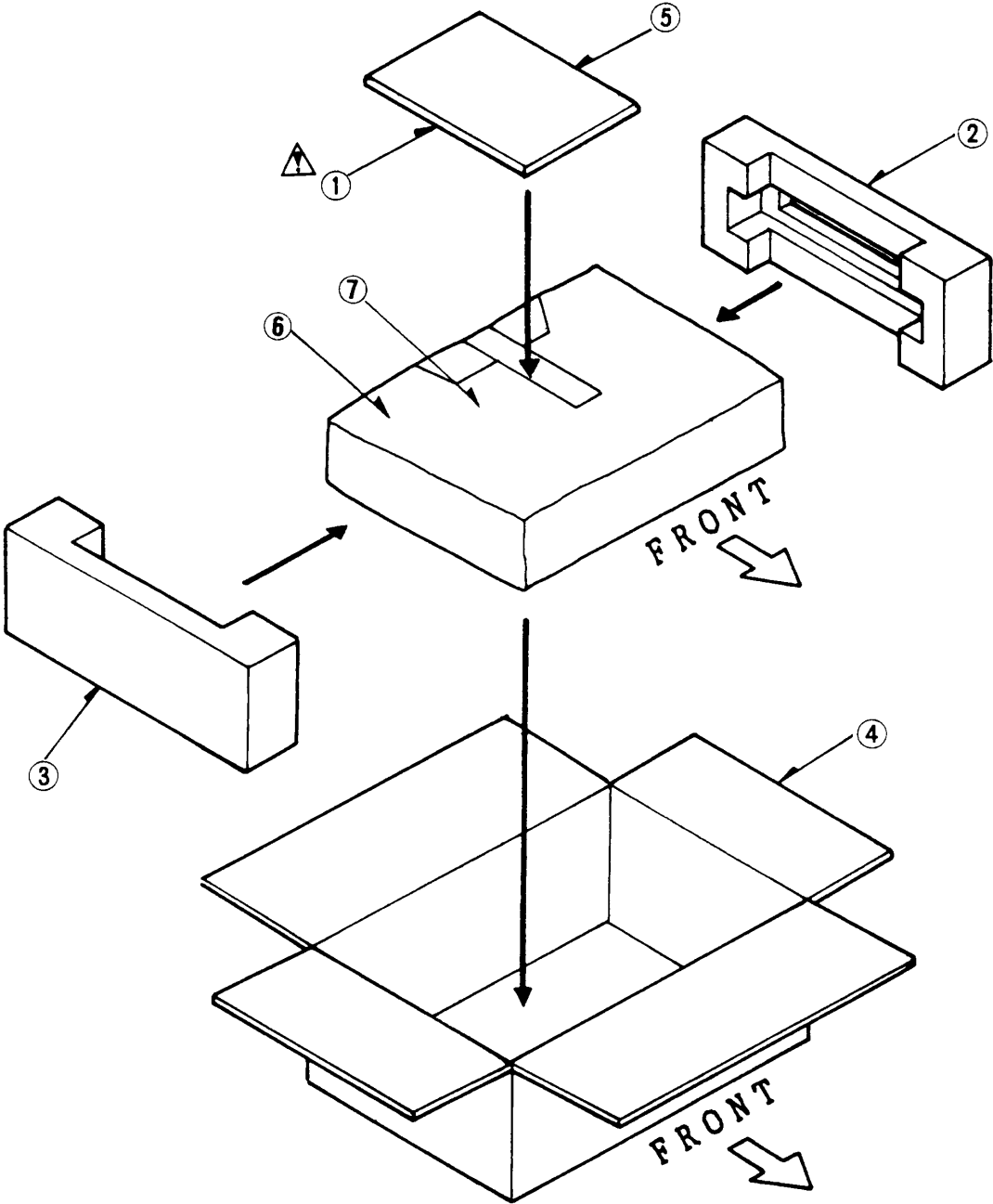
CASSETTE COMPARTMENT ASSEMBLY






PACKING PARTS ASSEMBLY

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PACKING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
 1	VQT8890	OPERATING INSTRUCTION	1						
2	VPN5232	CUSHION (R)	1						
3	VPN5231	CUSHION (L)	1						
4	VPG0G07	PACKING CASE	1						
5	VXF0170	EMARGENCY EJECT ASSY	1						
6	VPF0876	POLYETHYLENE BAG	1						
7	VPN5117	CUSHION	2						







## **CABLE CONNECTION**


[illegible]



ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP80B22A	LCD CONTROL 1 P.C. BOARD	1	(RTL)
■ E2	VEP80B23A	LCD CONTROL 2 P.C. BOARD	1	(RTL)
■ E3	VEP80B24A	TOP LED P.C. BOARD	1	(RTL)
■ E4	VEP80B25A	TOP SW P.C. BOARD	1	(RTL)
■ E5	VEP80B26A	EJECT SW 1 P.C. BOARD	1	(RTL)
■ E6	VEP80B41A	EJECT SW 2 P.C. BOARD	1	(RTL)
■ E7	VEP80B27A	FRONT JACK P.C. BOARD	1	(RTL)
■ E8	VEP80B28A	INTER CONNECTION P.C.B.	1	(RTL)
■ E9	VEP80B32A	DC IN P.C. BOARD	1	(RTL)
■ E10	VEP80B35A	DISPLAY SW P.C. BOARD	1	(RTL)
■ E11	VEP81194A	POWER 1 P.C. BOARD	1	(RTL)
■ E12	VEP81195A	POWER 2 P.C. BOARD	1	(RTL)
■ E13	VEP81196A	POWER 3 P.C. BOARD	1	(RTL)
■ E14	VEP82228A	SERVO DRIVE P.C. BOARD	1	(RTL)
■ E15	VEP83469B	V OUT 1 P.C. BOARD	1	(RTL)
■ E16	VEP83470B	V OUT 2 P.C. BOARD	1	(RTL)
■ E17	VEP83471A	ENCODER VR 1 P.C. BOARD	1	(RTL)
■ E18	VEP83472A	ENCODER VR 2 P.C. BOARD	1	(RTL)
■ E19	VEP83473B	DIGITAL 1 P.C. BOARD	1	(RTL)
■	VEP88234Z	DV UCOM P.C. BOARD	1	(RTL) FOR VEP88473B
■ E20	VEP83474B	DIGITAL 2 P.C. BOARD	1	(RTL)
■	VEP88234Z	DV UCOM P.C. BOARD	1	(RTL) FOR VEP88474B
■ E21	VEP83475A	AUDIO PROC&SDI P.C. BOARD	1	(RTL)
■ E22	VEP83482B	SYNC GENE P.C. BOARD	1	(RTL)
■ E23	VEP84336B	AUDIO VIDEO P.C. BOARD	1	(RTL)
■ E24	VEP84337A	AV I/O P.C. BOARD	1	(RTL)
■ E25	VEP84338A	MIC AMP P.C. BOARD	1	(RTL)
■ E26	VEP84339A	REAR JACK P.C. BOARD	1	(RTL)
■ E27	VEP84340A	VR BOARD 1 P.C. BOARD	1	(RTL)
■ E28	VEP84341A	VR BOARD 2 P.C. BOARD	1	(RTL)
■ E29	VEP84344B	AD/VD SUB P.C. BOARD	1	(RTL)
■ E30	VEP85182A	RF AMP 1 P.C. BOARD	1	(RTL)
■ E31	VEP85183A	RF AMP 2 P.C. BOARD	1	(RTL)
■ E32	VEP86290B	MAIN CONTROL P.C. BOARD	1	(RTL)
■ E33	VEP86291A	DISPLAY CONTROL P.C. BOARD	1	(RTL)
■ E34	VEP86292A	DISPLAY P.C. BOARD	1	(RTL)
■ E35	VEP80856A	CARRIGE P.C. BOARD	1	(RTL)
■ E36	VEP00Y68B	FLEX P.C. BOARD	1	(RTL)
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP80B22A	LCD CONTROL 1 P.C. BOARD	1	(RTL)
D69201-05	MA165	DIODE	5	
P69201	VJP1883T	CONNECTOR (MALE)	1	
P69202	VJP1874T	CONNECTOR (MALE)	1	
SW69201	VSS0162	SWITCH	1	
SW69202	EVQGSB04B	SWITCH	1	
SW69203	VSS0162	SWITCH	1	
SW69204, 05	EVQGSB04B	SWITCH	2	
VR69201	VRV0270	SWITCH	1	
		MISCELLANEOUS		
	VJF0882	CLAMPER	1	
■ E2	VEP80B23A	LCD CONTROL 2 P.C. BOARD	1	(RTL)
D69301-05	MA165	DIODE	5	
P69301	VJP1883T	CONNECTOR (MALE)	1	
SW69301, 02	VSS0162	SWITCH	2	
SW69303-05	EVQGSB04B	SWITCH	3	
VR69301, 02	VRV0270	SWITCH	2	
		MISCELLANEOUS		
	VJF0882	MINI CLAMPER	1	
■ E3	VEP80B24A	TOP LED P.C. BOARD	1	(RTL)
D69501, 02	VLL0200	LAMP	2	
P69501	VJP1243T	CONNECTOR (MALE) 3P	1	
R69501, 02	ERDS2TJ121	C. RESISTOR 1/4W 120	2	
		MISCELLANEOUS		
	VMX1436	LED SPACER	2	
■ E4	VEP80B25A	TOP SW P.C. BOARD	1	(RTL)
P69401	VJP1243T	CONNECTOR (MALE) 3P	1	
SW69401	VSM0168	SWITCH	1	
■ E5	VEP80B26A	EJECT SW 1 P.C. BOARD	1	(RTL)



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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P69601	VEEK67	EJECT	1	
SW69601	EVQGS404B	SWITCH	1	
■ E6	VEP80B41A	EJECT SW 2 P.C. BOARD	1	(RTL)
P69651	VEEK67	EJECT	1	
SW69651	EVQGS404B	SWITCH	1	
■ E7	VEP80B27A	FRONT JACK P.C. BOARD	1	(RTL)
FL69701, 02	VLF0630	FILTER	2	
J69701	VJJ0522	JACK	1	
P69701	VJP1598T	CONNECTOR (MALE) 5P	1	
■ E8	VEP80B28A	INTER CONNECTION P.C. B.	1	(RTL)
C101, 02	ECA1CHG682	E. CAPACITOR 16V 6800U	2	
C201, 02	ECA1CHG682	E. CAPACITOR 16V 6800U	2	
P101-05	VJS4313D080	CONNECTOR (FEMALE)	5	
P106	VJS3791D016	CONNECTOR (FEMALE)	1	
P107	VJS3791B030	CONNECTOR (FEMALE)	1	
P108	VJP1247T	CONNECTOR (MALE)	1	
P109	VJS4064K080E	CONNECTOR (FEMALE)	1	
P110	VJP3518D009	CONNECTOR (FEMALE)	1	
P111	VJS3406B022	CONNECTOR (FEMALE)	1	
P112	VJP3950F008	CONNECTOR (MALE)	1	
P113	VJP3518D009	CONNECTOR (FEMALE)	1	
P114	VJP3518B002	CONNECTOR (MALE)	1	
P201-05	VJS4313D080	CONNECTOR (FEMALE)	5	
P206	VJS3791B050	CONNECTOR (FEMALE)	1	
P207	VJS3791B030	CONNECTOR (FEMALE)	1	
P208	VJP1247T	CONNECTOR (MALE)	1	
P209	VJS4064K080E	CONNECTOR (FEMALE)	1	
P210-12	VJS3826A040	CONNECTOR (FEMALE)	3	
P213	VJS3406B009	CONNECTOR (FEMALE)	1	
P214	VJS3406D010	CONNECTOR (FEMALE)	1	
P215	VJP3518B002	CONNECTOR (MALE)	1	
R1-R7	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	7	
		MISCELLANEOUS		
	VJF1157	HARNESS	4	
	VJF0309	HOLDER	1	
■ E9	VEP80B32A	DC IN P.C. BOARD	1	(RTL)
△ C101	VCK0260M222A	C. CAPACITOR 2200P	1	
		MISCELLANEOUS		


Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEEK59	DC IN CABLE	1	
■ E10	VEP80B35A	DISPLAY SW P.C. BOARD	1	(RTL)
D69101-13	M1MA152K	DIODE	13	
P69101	VJS3791B020	CONNECTOR (FEMALE)	1	
SW69101	VSS0574	SWITCH	1	
SW69102, 03	VSS0573	SWITCH	2	
SW69104-09	VSS0574	SWITCH	6	
SW69110, 11	VSS0573	SWITCH	2	
SW69112	VSS0574	SWITCH	1	
SW69113	VSS0573	SWITCH	1	
		MISCELLANEOUS		
	VMZ3009	INSULATION SHEET	1	
■ E11	VEP81194A	POWER 1 P.C. BOARD	1	(RTL)
C1303	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C1305	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1306	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C1307	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1308	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C1309	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1310	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C1315, 16	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
C1317, 18	ECST1DY475Z	T. CAPACITOR CH 20V 4.7U	2	
C1319, 20	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
C1323, 24	VCEA1DAP680	E. CAPACITOR 20V 68U	2	
C1328, 29	VCEA1AAP221	E. CAPACITOR 10V 220U	2	
C1331	EEFCD0J470R	E. CAPACITOR 6.3V 47U	1	
C1332	EEFCD1B220R	E. CAPACITOR 12.5V 22U	1	
C1333, 34	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
C1503	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1504	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C1505	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1508	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1509	ECST1DY475Z	T. CAPACITOR CH 20V 4.7U	1	
C1510	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1512	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C1515	VCEA1AAP221	E. CAPACITOR 10V 220U	1	
C1516	EEFCD0J470R	E. CAPACITOR 6.3V 47U	1	
C1517	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1601	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C1603	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C1605	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1606	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C1607	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1608	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C1615, 16	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
C1617, 18	ECST1DY475Z	T. CAPACITOR CH 20V 4.7U	2	
C1619, 20	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
C1623, 24	VCEA1DAP680	E. CAPACITOR 20V 68U	2	
C1629, 30	VCEA1AAP221	E. CAPACITOR 10V 220U	2	
C1631, 32	EEFCD1B220R	E. CAPACITOR 12.5V 22U	2	
C1633, 34	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
C1701	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1702	ECST1EX335Z	T. CAPACITOR CH 25V 3.3U	1	
C1703	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1705	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C1706-11	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	6	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1713	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1715	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1717	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1719	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1720	EEUFC1C331	E. CAPACITOR 16V 330U	1	
D1301, 02	MA142WK	D1ODE	2	
D1303, 04	NSQ03A04	D1ODE	2	
D1305, 06	MA8062-H	D1ODE	2	
D1307-09	MA142WK	D1ODE	3	
D1310	MA142WA	D1ODE	1	
D1501	MA142WK	D1ODE	1	
D1502	SFPB-64V	D1ODE	1	
D1503	MA8062-H	D1ODE	1	
D1504	MA142WK	D1ODE	1	
D1506	MA142WK	D1ODE	1	
D1601, 02	MA142WK	D1ODE	2	
D1603, 04	NSQ03A04	D1ODE	2	
D1605, 06	MA8062-H	D1ODE	2	
D1607	MA142WK	D1ODE	1	
D1610	MA142WA	D1ODE	1	
D1702	MA8056-MH	D1ODE	1	
D1703, 04	MA142WA	D1ODE	2	
D1705	MA142WK	D1ODE	1	
IC1301, 02	SB3032P	IC	2	
IC1303	TM3111	TRANSISTOR	1	
IC1304	TM3115	TRANSISTOR	1	
IC1305	TM3111	TRANSISTOR	1	
IC1306	TM3115	TRANSISTOR	1	
IC1501	TM3111	TRANSISTOR	1	
IC1502	TM3115	TRANSISTOR	1	
IC1503	SB3032P	IC	1	
IC1601, 02	SB3032P	IC	2	
IC1603	TM3111	TRANSISTOR	1	
IC1604	TM3115	TRANSISTOR	1	
IC1605	TM3111	TRANSISTOR	1	
IC1606	TM3115	TRANSISTOR	1	
JP3	VMP6469	EARTH SPRING	1	
JP4-P6	VMP6346	EARTH LUG	3	
L1301	VLQ0655M3R3	COIL 3.3U	1	
L1302, 03	VLP0353	COIL	2	
L1304	VLQ0864	COIL	1	
L1305	VLQ0859M100	COIL 10U	1	
L1306, 07	VLQ0826M3R3	COIL 3.3U	2	
L1308	VLQ0655M3R3	COIL 3.3U	1	
L1501	VLP0353	COIL	1	
L1502	VLQ0859M100	COIL 10U	1	
L1503	VLQ0655M3R3	COIL 3.3U	1	
L1504	VLQ0407100M	COIL 10UH	1	
L1601	VLQ0655M3R3	COIL 3.3U	1	
L1602, 03	VLP0353	COIL	2	
L1604	VLQ0859M100	COIL 10U	1	
L1605	VLQ0864	COIL	1	
L1606, 07	VLQ0826M3R3	COIL 3.3U	2	
L1608	VLQ0655M3R3	COIL 3.3U	1	
L1702	VLQ0441K220	COIL 22UH	1	
L1703	VLQ0409M100	COIL 10U	1	
P1701	VJS4355A034	CONNECTOR (FEMALE)	1	
P1702	VJP4329A030	CONNECTOR (MALE)	1	
P1703	VJP3926B018	CONNECTOR (MALE)	1	
P1704	VEEOL76	CABLE	1	
P1705	VJS3422A022	CONNECTOR (FEMALE)	1	
P1706	VJP1229T	CONNECTOR (MALE)	1	
Q1301	2SD1819A-R	TRANSISTOR	1	
Q1701	XN4401	TRANSISTOR-RESISTOR	1	
Q1702	2SD1819A-R	TRANSISTOR	1	
Q1703	XN4401	TRANSISTOR-RESISTOR	1	
Q1704	2SD1819A-R	TRANSISTOR	1	
QR1303, 04	UN5213	TRANSISTOR-RESISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR1702	UN5213	TRANSISTOR-RESISTOR	1	
R1301	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R1302	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R1303	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R1304	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1305	ERJ3RBD241	M. RESISTOR CH 1/16W 240	1	
R1306	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1307	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1308	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R1311	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R1312	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1313	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1319, 20	ERJ3RED514	M. RESISTOR CH 1/16W 510K	2	
R1321	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1325	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1327	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1329	VRE0202H15M	M. RESISTOR CH 100K	1	
R1330	VRE0202H22M	M. RESISTOR	1	
R1333, 34	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1335, 36	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1337, 38	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	
R1339, 40	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R1341, 42	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R1343, 44	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1501	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R1502	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1503	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R1504	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1507	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R1510	ERJ3RED514	M. RESISTOR CH 1/16W 510K	1	
R1513	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1515	VRE0202H22M	M. RESISTOR	1	
R1517	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1518	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1520	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1601	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R1602	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1603	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R1604	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1605	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R1606	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R1607, 08	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2	
R1619, 20	ERJ3RED514	M. RESISTOR CH 1/16W 510K	2	
R1625	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1627	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1629, 30	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	
R1631, 32	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1633	VRE0202H22M	M. RESISTOR	1	
R1634	VRE0202H15M	M. RESISTOR CH 100K	1	
R1635, 36	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	
R1637, 38	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1641, 42	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R1645, 46	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1701	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	1	
R1702	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1704	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1705	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1706	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1707	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	1	
R1708	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1710	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1711	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1713	ERJ6RBD513	M. RESISTOR CH 1/10W 51K	1	
R1714-19	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R1720	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1721	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1725, 26	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	2	
R1727, 28	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	2	
TG1701	EYF6CU	TEST POINT	1	
TP1301, 02	EYF6CU	TEST POINT	2	
TP1501	EYF6CU	TEST POINT	1	
TP1601, 02	EYF6CU	TEST POINT	2	



Components identified with the mark  have the special characteristics for safety.  
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TP1701-06	EYF6CU	TEST POINT	6	
		MISCELLANEOUS		
	XTV3+8F	SCREW	6	
■ E12	VEP81195A	POWER 2 P.C. BOARD	1	(RTL)
C1001	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C1002	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1003	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1004, 05	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C1007	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1008	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	1	
C1010	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C1011, 12	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
C1015	EEVHB1V100	E. CAPACITOR 35V 10U	1	
C1104-06	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	3	
C1107	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C1109	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C1110	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C1112	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1113	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1115	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C1116, 17	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	2	
C1118	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C1119-21	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	3	
C1123	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C1124	VCK0303K225	C. CAPACITOR 2.2U	1	
C1127	VCK0303K225	C. CAPACITOR 2.2U	1	
C1129	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1130, 31	VCEA1DAP220	E. CAPACITOR 20V 22U	2	
C1134, 35	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C1139	VCEA1DAP220	E. CAPACITOR 20V 22U	1	
C1141	VCEA1DAP220	E. CAPACITOR 20V 22U	1	
C1144	EEAF1C560	E. CAPACITOR 16V 56U	1	
C1145	VCEA1DAP220	E. CAPACITOR 20V 22U	1	
C1146	EEAF1C560	E. CAPACITOR 16V 56U	1	
C1148-50	VCEA1DAP220	E. CAPACITOR 20V 22U	3	
C1152	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
△ CB1001-03	VSQ1171	CIRCUIT PROTECTOR	3	
D1005	MA142WK	D1ODE	1	
D1006	MA142WA	D1ODE	1	
D1007	MA8027-H	D1ODE	1	
D1008	MA3100-M	D1ODE	1	
D1009, 10	MA142WK	D1ODE	2	
D1011	MA3200-M	D1ODE	1	
D1012	MA8056-MH	D1ODE	1	
D1013	MA8100-M	D1ODE	1	
D1015-17	Z6056U	D1ODE	3	
D1018	MA142WK	D1ODE	1	
D1020	MA8062-MH	D1ODE	1	
D1022	MA8180-M	D1ODE	1	
D1023	MA3240-H	D1ODE	1	
D1030	MA142WA	D1ODE	1	
D1034	MA157A	D1ODE	1	
D1036, 37	MA142WA	D1ODE	2	
D1039, 40	MA157A	D1ODE	2	
D1101-05	MA142WK	D1ODE	5	
D1106	DE5SC4M-4061	D1ODE	1	
D1107	SFPB-76V	D1ODE	1	
D1108	SFPB-64V	D1ODE	1	
D1109	MA142WK	D1ODE	1	
D1111	MA8180-M	D1ODE	1	
D1114-16	MA142WK	D1ODE	3	
D1117	MA8120-M	D1ODE	1	
D1118	MA8180-M	D1ODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1001, 02	NJM2903M	IC	2	
IC1101, 02	BA9743AFV	IC	2	
JP1-P3	VMP6346	EARTH LUG	3	
L1001-06	VLP0364	CHIP INDUCTOR	6	
L1011	VLP0364	CHIP INDUCTOR	1	
L1012	VLQ0319K100	COIL 10UH	1	
L1101-03	VLP0353	COIL	3	
L1104	VLQ0441K4R7	COIL 4.7UH	1	
L1105	VLQ0655M3R3	COIL 3.3U	1	
L1106	VLP0364	CHIP INDUCTOR	1	
L1107	VLQ0859M221	COIL 220U	1	
L1108, 09	VLQ0859M470	COIL 47U	2	
L1110	VLP0364	CHIP INDUCTOR	1	
L1111	VLQ0441K4R7	COIL 4.7UH	1	
L1112	VLQ0441K1R0	COIL 1.0UH	1	
P1001	VJP4396B002	CONNECTOR (MALE)	1	
P1002	VJP2856B034	CONNECTOR (MALE)	1	
P1003	VJP4399L011	CONNECTOR (MALE)	1	
Q1001	XN4601	TRANSISTOR-RESISTOR	1	
Q1002	2SK2897-01R	TRANSISTOR	1	
Q1004	2SK2897-01R	TRANSISTOR	1	
Q1006	2SK2897-01R	TRANSISTOR	1	
Q1010	2SD1820A-R	TRANSISTOR	1	
Q1011	2SB1219A-R	TRANSISTOR	1	
Q1012	2SD1819A-R	TRANSISTOR	1	
Q1013-15	2SB1218A-R	TRANSISTOR	3	
Q1101-03	2SD1819A-R	TRANSISTOR	3	
Q1104	2SD1820A-R	TRANSISTOR	1	
Q1105	2SB1219A-R	TRANSISTOR	1	
Q1106	2SD1820A-R	TRANSISTOR	1	
Q1107	2SB1219A-R	TRANSISTOR	1	
Q1108	2SD1819A-R	TRANSISTOR	1	
Q1109	XN4401	TRANSISTOR-RESISTOR	1	
Q1110	2SD1820A-R	TRANSISTOR	1	
Q1111	2SB1219A-R	TRANSISTOR	1	
Q1112	XN4401	TRANSISTOR-RESISTOR	1	
Q1113, 14	2SJ489-4061	FET	2	
Q1115	2SJ279S	TRANSISTOR	1	
Q1117	2SK1748-Z	TRANSISTOR	1	
Q1118	2SD1819A-R	TRANSISTOR	1	
Q1120	UN5113	TRANSISTOR-RESISTOR	1	
Q1121	2SB1218A-R	TRANSISTOR	1	
QR1001-03	UN5213	TRANSISTOR-RESISTOR	3	
QR1004	UN5113	TRANSISTOR-RESISTOR	1	
QR1005	UN5111	TRANSISTOR-RESISTOR	1	
QR1006-09	UN5211	TRANSISTOR-RESISTOR	4	
QR1010	UN5213	TRANSISTOR-RESISTOR	1	
QR1011	UN5113	TRANSISTOR-RESISTOR	1	
QR1012	UN5213	TRANSISTOR-RESISTOR	1	
QR1013	UN5112	TRANSISTOR-RESISTOR	1	
QR1014-16	UN5213	TRANSISTOR-RESISTOR	3	
QR1101-03	UN5211	TRANSISTOR-RESISTOR	3	
QR1104	UN5113	TRANSISTOR-RESISTOR	1	
QR1106, 07	UN5113	TRANSISTOR-RESISTOR	2	
R1001	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1002	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1003	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1004, 05	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R1007	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R1008	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1009	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1010	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1011	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R1012-15	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R1016	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R1017	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R1018	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1019	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1020, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1034-36	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R1038-40	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	3	
R1042	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1046, 47	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	2	
R1048	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R1050	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1051	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1053	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1054	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1055	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1056, 57	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R1058, 59	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1060	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R1061, 62	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
R1064	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1065, 66	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R1067-71	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	5	
R1073	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1074	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R1083	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1101	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1103, 04	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R1105	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1107, 08	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R1109	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R1110	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R1111	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R1112	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1113, 14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1115-19	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	5	
R1120	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R1121	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1122	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R1123	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R1125	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R1126	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R1127	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R1128	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R1129	ERJ3RED244	M. RESISTOR CH 1/16W 240K	1	
R1130	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
R1131	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R1132	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R1133, 34	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R1135	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1136	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1137, 38	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1141	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1143	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1144	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1145	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1147	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R1149	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1150	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1152	ERJL1WKJ39M	M. RESISTOR CH 1W	1	
R1153	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1155	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1156	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1157	ERJ1WRSJR12	M. RESISTOR CH 1W 0.12	1	
R1159	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1160	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R1161, 62	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R1164	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R1165	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1166, 67	ERJ3GEYJ477	M. RESISTOR CH 1/16W 4.7	2	
R1170	ERJ3GEYJ477	M. RESISTOR CH 1/16W 4.7	1	
R1172	ERJ3GEYJ477	M. RESISTOR CH 1/16W 4.7	1	
R1173	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1174, 75	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R1179	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R1181	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1184	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R1185	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1187	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
TG1001	EYF6CU	TEST POINT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TH1001	VRT0143	THERMISTOR	1	
TP1001	EYF6CU	TEST POINT	1	
TP1101	EYF6CU	TEST POINT	1	
VR1101	VRV0161B502	V. RESISTOR 5K	1	
		MISCELLANEOUS		
	XTV3+8F	SCREW	2	
	XYN3+K8	SCREW	3	
	VEE1506	CABLE	1	
	VJR0036	RUG PIN	1	
■ E13	VEP81196A	POWER 3 P. C. BOARD	1 (RTL)	
C1205, 06	VCK0303K225	C. CAPACITOR 2.2U	2	
C1207, 08	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C1210, 11	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	2	
C1213	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1216, 17	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C1218-21	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	4	
C1224, 25	VCK0303K225	C. CAPACITOR 2.2U	2	
C1228, 29	VCEA1DAP680	E. CAPACITOR 20V 68U	2	
C1230	VCEA1DAP220	E. CAPACITOR 20V 22U	1	
C1233-35	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C1236, 37	VCEA1AAP221	E. CAPACITOR 10V 220U	2	
C1238	VCEA1DAP220	E. CAPACITOR 20V 22U	1	
C1241, 42	EEUFC1C331	E. CAPACITOR 16V 330U	2	
C1243	EEAFC1C560	E. CAPACITOR 16V 56U	1	
D1203	MA142WK	DIODE	1	
D1205, 06	MA142WK	DIODE	2	
D1207, 08	DE5SC4M-4061	DIODE	2	
D1209	SFPB-76V	DIODE	1	
D1210	MA142WA	DIODE	1	
D1211	MA142WK	DIODE	1	
D1212	MA8100-M	DIODE	1	
D1213	MA142WA	DIODE	1	
D1214	MA8180-M	DIODE	1	
D1215	MA142WA	DIODE	1	
IC1201, 02	BA9743AFV	IC	2	
JP1201	VMP6346	EARTH LUG	1	
L1201-03	VLPO353	COIL	3	
L1204	VLQ0655M3R3	COIL 3.3U	1	
L1205	VLQ0441K4R7	COIL 4.7UH	1	
L1206, 07	VLQ0922	COIL	2	
L1208	VLQ0788331	COIL 330U	1	
L1209, 10	VLQ0655M3R3	COIL 3.3U	2	
L1211	VLQ0441K220	COIL 22UH	1	
P1201	VJS4399A011	CONNECTOR (FEMALE)	1	
Q1202-04	2SD1819A-R	TRANSISTOR	3	
Q1205	2SD1820A-R	TRANSISTOR	1	
Q1206	2SB1219A-R	TRANSISTOR	1	
Q1207	2SD1820A-R	TRANSISTOR	1	
Q1208	2SB1219A-R	TRANSISTOR	1	
Q1209	2SD1820A-R	TRANSISTOR	1	
Q1210	2SB1219A-R	TRANSISTOR	1	
Q1211-13	XN4401	TRANSISTOR-RESISTOR	3	
Q1214, 15	2SJ491-4100	TRANSISTOR	2	
Q1216	2SJ279S	TRANSISTOR	1	
Q1217-19	2SD1819A-R	TRANSISTOR	3	
QR1201	UN5212	TRANSISTOR-RESISTOR	1	







Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C22537, 38	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C22539, 40	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	2	
C22541, 42	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C22543, 44	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
C22545, 46	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22547, 48	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
C22549-54	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	6	
C22555-60	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	6	
C22601	VCK0152	C. CAPACITOR	1	
C22602	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22603	VCE0180	E. CAPACITOR	1	
C22604	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C22605	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22606	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C22607, 08	VCE0180	E. CAPACITOR	2	
C22609	VCC0037F432	C. CAPACITOR 432P	1	
C22610	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C22611, 12	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22613	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C22614	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22617, 18	VCE0180	E. CAPACITOR	2	
C22619, 20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22621	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C22702	ECA1EEN101	E. CAPACITOR 25V 100U	1	
C22801-03	EEVHB1C470	E. CAPACITOR 16V 47U	3	
C22804	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C22805	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22806	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C22807	EEVHB1E4R7	E. CAPACITOR 25V 4.7U	1	
C22808, 09	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
C22905	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22908	VCK0152	C. CAPACITOR	1	
C22911	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C23201	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
C23202, 03	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	2	
C23204-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C23208, 09	ECUX1H153KBV	C. CAPACITOR CH 50V 0.015U	2	
C23210	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C23211	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C23212	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C23216	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C23217	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C23219	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C23220	EEVHB1C100	E. CAPACITOR 16V 10U	1	
D22101-04	MA147	D1ODE	4	
D22201	MA143	D1ODE	1	
D22202, 03	MA8039-L	D1ODE	2	
D22204, 05	MA143	D1ODE	2	
D22206, 07	MA142K	D1ODE	2	
D22208, 09	MA8056-MH	D1ODE	2	
D22210	MA143	D1ODE	1	
D22301, 02	MA736	D1ODE	2	
D22303, 04	MA728	D1ODE	2	
D22401-04	MA143	D1ODE	4	
D22405, 06	MA736	D1ODE	2	
D22501, 02	MA8047-H	D1ODE	2	
D22503-14	MA738	D1ODE	12	
D22601, 02	MA728	D1ODE	2	
D22603, 04	MA736	D1ODE	2	
D22605	MA8039-L	D1ODE	1	
D22701	MA142WA	D1ODE	1	
D22702-05	MA738	D1ODE	4	
D22706-08	MA142WA	D1ODE	3	
D22709-20	MA738	D1ODE	12	
D22721-24	NSQ03A04	D1ODE	4	
D22801	MA738	D1ODE	1	
D22802	MA8056-MH	D1ODE	1	
D22803	MA8051-M	D1ODE	1	
D22804	MA8056-MH	D1ODE	1	
D22805	MA8100-M	D1ODE	1	
D22806	MA8068-M	D1ODE	1	
D22807	MA3100-L	D1ODE	1	
D22808	MA3075-M	D1ODE	1	
D22809	MA142WK	D1ODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D23201-04	MA8047-H	D1ODE	4	
D23205	MA8051-H	D1ODE	1	
D23206	21DQ04	D1ODE	1	
D23207	MA8030-H	D1ODE	1	
D23208	MA8051-H	D1ODE	1	
D23301	MA142WA	D1ODE	1	
D23302-05	MA738	D1ODE	4	
D23306	NSQ03A04	D1ODE	1	
IC22101-03	TA75W558FU	IC	3	
IC22104	UPC4741G2	IC	1	
IC22105	TA75W558FU	IC	1	
IC22106	UPC4741G2	IC	1	
IC22107, 08	TA75W393FU	IC	2	
IC22109	MC14538BF	IC	1	
IC22201	TC7W04F	IC	1	
IC22202	TC7W74FU	IC	1	
IC22203	AD633JR	IC	1	
IC22205	NJM4580ED	IC	1	
IC22206	TC4052BF	IC	1	
IC22207	TA75W558FU	IC	1	
IC22208	TA75W01FU	IC	1	
IC22210	TA75W558FU	IC	1	
IC22211, 12	0P177GS	IC	2	
IC22301, 02	AN3890FBS	IC	2	
IC22303	TA75W393FU	IC	1	
IC22401	TA75W558FU	IC	1	
IC22402	TA75W393FU	IC	1	
IC22403	TA75W558FU	IC	1	
IC22404	TA75W393FU	IC	1	
IC22405, 06	UPC4558G2	IC	2	
IC22407	TA75W01FU	IC	1	
IC22501	XC62DN5002P	IC	1	
IC22502, 03	AN3834S	IC	2	
IC22504	TA75W558FU	IC	1	
IC22505	TA75W01FU	IC	1	
IC22506	TA75W393FU	IC	1	
IC22601	XC62AP5002P	IC	1	
IC22602	TL1451CNS	IC	1	
IC22603	NJM4580ED	IC	1	
IC22801, 02	M54649L	IC	2	
IC22901	XC62AP5002P	IC	1	
IC23202, 03	NJM2904M	IC	2	
IC23204, 05	TA75W558FU	IC	2	
IC23207	LTC16601GN	IC	1	
L22201, 02	VLQ0319K101	COIL 100UH	2	
L22301, 02	VLQ0650M151	COIL 150UH	2	
L22303	VLQ0651M120	COIL 12UH	1	
L22401	VLQ0319K101	COIL 100UH	1	
L22601	VLQ0651M120	COIL 12UH	1	
L22602, 03	VLQ0650M151	COIL 150UH	2	
L22801, 02	VLQ0319K101	COIL 100UH	2	
L22901, 02	VLQ0319K100	COIL 10UH	2	
P22901	VJS3826C030	CONNECTOR (FEMALE)	1	
P22902	VJP3949C070H	CONNECTOR (MALE)	1	
P23103	VJP1234T	CONNECTOR (MALE) 7P	1	
P23111	VJP3172D002	CONNECTOR (MALE)	1	
P23112	VJP3172D005	CONNECTOR (MALE)	1	
P23113	VJP3172D002	CONNECTOR (MALE)	1	
P23114	VJP3172D003	CONNECTOR (MALE)	1	
P23115	VJP3518B002	CONNECTOR (MALE)	1	
P23116	VJP3518B003	CONNECTOR (MALE)	1	
P23117	VJS3801B010	CONNECTOR (FEMALE)	1	
P23118	VJP3518B002	CONNECTOR (MALE)	1	
P23119	VJP3172D002	CONNECTOR (MALE)	1	
P23120	VJP3518B003	CONNECTOR (MALE)	1	
P23121	VJP3518B002	CONNECTOR (MALE)	1	
P23122	VJP3172D004	CONNECTOR (MALE)	1	
P23124	VJP3518B002	CONNECTOR (MALE)	1	
P23125	VJP1230T	CONNECTOR (MALE) 3P	1	
P23126	VJP1236T	CONNECTOR (MALE) 9P	1	
P23130	VJP3172D003	CONNECTOR (MALE)	1	
P23132	VJP3172D004	CONNECTOR (MALE)	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P23133	VJS3406B015	CONNECTOR (FEMALE)	1	
P23134, 35	VJS3813C017	CONNECTOR (FEMALE)	2	
P23136	VJS3406B019	CONNECTOR (FEMALE)	1	
P23137	VJP3125B002	CONNECTOR (MALE)	1	
P23138	VJP3172D002	CONNECTOR (MALE)	1	
Q22101	2SD601A-R	TRANSISTOR	1	
Q22201	2SD1820A-R	TRANSISTOR	1	
Q22202, 03	2SB1219A-R	TRANSISTOR	2	
Q22204, 05	2SD1820A-R	TRANSISTOR	2	
Q22206, 07	2SB1219A-R	TRANSISTOR	2	
Q22208	2SD1820A-R	TRANSISTOR	1	
Q22301	2SB1073-R	TRANSISTOR	1	
Q22302	2SD1119-R	TRANSISTOR	1	
Q22303	2SB1073-R	TRANSISTOR	1	
Q22304	2SD1119-R	TRANSISTOR	1	
Q22305	2SB1073-R	TRANSISTOR	1	
Q22306	2SD1119-R	TRANSISTOR	1	
Q22307	2SB1073-R	TRANSISTOR	1	
Q22308	2SD1119-R	TRANSISTOR	1	
Q22309	2SB1073-R	TRANSISTOR	1	
Q22310	2SD1119-R	TRANSISTOR	1	
Q22311	2SB1073-R	TRANSISTOR	1	
Q22312	2SD1119-R	TRANSISTOR	1	
Q22313-16	2SD1820A-R	TRANSISTOR	4	
Q22317, 18	2SB1073-R	TRANSISTOR	2	
Q22401	2SB1219A-R	TRANSISTOR	1	
Q22601, 02	2SB1073-R	TRANSISTOR	2	
Q22701	2SD1819A-R	TRANSISTOR	1	
Q22702	2SB1219A-R	TRANSISTOR	1	
Q22703	2SD1819A-R	TRANSISTOR	1	
Q22704	2SB1073-R	TRANSISTOR	1	
Q22705	2SD1624-S	TRANSISTOR	1	
Q22706	2SD1819A-R	TRANSISTOR	1	
Q22707	2SB1219A-R	TRANSISTOR	1	
Q22708	2SB1073-R	TRANSISTOR	1	
Q22709	2SD1624-S	TRANSISTOR	1	
Q22710	2SB1219A-R	TRANSISTOR	1	
Q22711	2SD1819A-R	TRANSISTOR	1	
Q22712	2SB1219A-R	TRANSISTOR	1	
Q22713, 14	2SD1819A-R	TRANSISTOR	2	
Q22715	2SB1219A-R	TRANSISTOR	1	
Q22716	2SB1073-R	TRANSISTOR	1	
Q22717	2SD1624-S	TRANSISTOR	1	
Q22718	2SB1073-R	TRANSISTOR	1	
Q22719	2SD1624-S	TRANSISTOR	1	
Q22720	2SB1073-R	TRANSISTOR	1	
Q22721	2SD1624-S	TRANSISTOR	1	
Q22722	2SD1819A-R	TRANSISTOR	1	
Q22723	2SB1219A-R	TRANSISTOR	1	
Q22724	2SD1819A-R	TRANSISTOR	1	
Q22725	2SB1219A-R	TRANSISTOR	1	
Q22726	2SD1819A-R	TRANSISTOR	1	
Q22727	2SB1219A-R	TRANSISTOR	1	
Q22728	2SB1073-R	TRANSISTOR	1	
Q22729	2SD1624-S	TRANSISTOR	1	
Q22730	2SB1073-R	TRANSISTOR	1	
Q22731	2SD1624-S	TRANSISTOR	1	
Q22732	2SB1073-R	TRANSISTOR	1	
Q22733	2SD1624-S	TRANSISTOR	1	
Q22801	2SB1073-R	TRANSISTOR	1	
Q22802	2SD1624-S	TRANSISTOR	1	
Q22803	2SD1819A-R	TRANSISTOR	1	
Q23201	2SB936A-Q	TRANSISTOR	1	
Q23202	2SD601A-R	TRANSISTOR	1	
Q23203	2SB936A-Q	TRANSISTOR	1	
Q23204	2SD601A-R	TRANSISTOR	1	
Q23301	2SD1819A-R	TRANSISTOR	1	
Q23302	2SB1219A-R	TRANSISTOR	1	
Q23303	2SB1073-R	TRANSISTOR	1	
Q23304	2SD1624-S	TRANSISTOR	1	
Q23305	2SD1819A-R	TRANSISTOR	1	
Q23306	2SB1219A-R	TRANSISTOR	1	
Q23307	2SB1073-R	TRANSISTOR	1	
Q23308	2SD1624-S	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR22101	UN5213	TRANSISTOR-RESISTOR	1	
QR22102	UN5113	TRANSISTOR-RESISTOR	1	
QR22103	UN5213	TRANSISTOR-RESISTOR	1	
QR22104	UN5113	TRANSISTOR-RESISTOR	1	
QR22105	UN5213	TRANSISTOR-RESISTOR	1	
QR22201, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR22301	UN5213	TRANSISTOR-RESISTOR	1	
QR22302	UN5217	TRANSISTOR-RESISTOR	1	
QR22303	UN5113	TRANSISTOR-RESISTOR	1	
QR22305	UN5211	TRANSISTOR-RESISTOR	1	
QR22307, 08	UN5213	TRANSISTOR-RESISTOR	2	
QR22501-04	UN5213	TRANSISTOR-RESISTOR	4	
QR22701, 02	UN5214	TRANSISTOR-RESISTOR	2	
QR22703, 04	UN5114	TRANSISTOR-RESISTOR	2	
QR22705-10	UN5214	TRANSISTOR-RESISTOR	6	
QR22711-16	UN5114	TRANSISTOR-RESISTOR	6	
QR22801	UN5213	TRANSISTOR-RESISTOR	1	
QR22802, 03	UN5211	TRANSISTOR-RESISTOR	2	
QR22804	UN5214	TRANSISTOR-RESISTOR	1	
QR22805, 06	UN5213	TRANSISTOR-RESISTOR	2	
QR22807	UN5114	TRANSISTOR-RESISTOR	1	
QR22808	UN5214	TRANSISTOR-RESISTOR	1	
QR23201	UN5214	TRANSISTOR-RESISTOR	1	
QR23301, 02	UN5214	TRANSISTOR-RESISTOR	2	
QR23303, 04	UN5114	TRANSISTOR-RESISTOR	2	
R22101	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R22102, 03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22104, 05	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	2	
R22106, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22108, 09	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
R22110, 11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22112	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R22113, 14	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R22115	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R22116	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R22117, 18	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R22119	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22120	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22121	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R22122	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R22123	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R22124	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22125	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R22126-31	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	6	
R22132-35	ERJ3RED334	M. RESISTOR CH 1/16W 330K	4	
R22136	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22137	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R22138	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R22139	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22140, 41	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	2	
R22144	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22145, 46	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	2	
R22147	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R22148	ERJ3GEYJ274	M. RESISTOR CH 1/16W 270K	1	
R22149, 50	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R22151, 52	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2	
R22153, 54	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	2	
R22156	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R22158, 59	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R22160	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R22201	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22202	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22203	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22204	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R22205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22206-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R22209	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R22210, 11	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22212	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22213	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R22214-16	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R22217	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R22218	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R22219, 20	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	2	
R22221	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R22222	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R22223	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22224	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R22225	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R22226	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R22227	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R22228-30	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R22231	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R22232	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22233-35	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R22236, 37	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R22238	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R22239	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R22240	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R22241	ERJ3GEYJ274	M. RESISTOR CH 1/16W 270K	1	
R22242	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R22243	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R22244	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22245	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R22246	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R22247	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22248	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R22249	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R22250, 51	ERJ3RBD823	M. RESISTOR CH 1/16W 82K	2	
R22252, 53	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R22254	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22257	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22258	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22259	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R22260, 61	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	2	
R22262, 63	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22265, 66	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R22302	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R22303-06	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	4	
R22307, 08	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R22309	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R22311	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R22312	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22313, 14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R22315	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22316-21	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	6	
R22322	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R22323	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R22324	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R22325	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R22326, 27	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22329, 30	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	2	
R22331, 32	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22333, 34	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22335, 36	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	2	
R22337, 38	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22339, 40	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R22341, 42	ERJ8GEYJ681	M. RESISTOR CH 1/8W 680	2	
R22343, 44	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22403, 04	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R22407-10	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R22411	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22412	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R22413	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22414	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	1	
R22415-18	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R22419-22	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	4	
R22423	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R22424-27	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R22428	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R22429	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R22430-33	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	4	
R22435	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22436	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22437-39	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R22440	ERJ3RBD432	M. RESISTOR CH 1/16W 4.3K	1	
R22443	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R22444	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R22445, 46	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R22447	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R22448	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R22450-54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R22501	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R22503	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R22504	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22505	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R22506, 07	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R22509	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R22510	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22511, 12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R22513, 14	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R22515-18	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	4	
R22519	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R22520	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22521, 22	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	2	
R22523, 24	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R22525, 26	ERJ3RBD182	M. RESISTOR CH 1/16W 18K	2	
R22527-30	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	4	
R22531-36	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	6	
R22537, 38	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R22539, 40	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	2	
R22541, 42	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	2	
R22543, 44	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R22545	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22547	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22601, 02	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2	
R22603, 04	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	2	
R22605, 06	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R22607-10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R22611, 12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R22614	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R22615	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R22616	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R22617, 18	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
R22619, 20	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22621, 22	ERJ8GEYJ681	M. RESISTOR CH 1/8W 680	2	
R22625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R22626	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22627, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R22701	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22702	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R22703, 04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22705, 06	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R22707, 08	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R22709-12	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	4	
R22713, 14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22715, 16	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R22717, 18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R22719-22	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	4	
R22723, 24	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22725-30	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	6	
R22731-36	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	
R22737-48	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	12	
R22749-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	6	
R22755-60	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	6	
R22761-66	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	
R22767-78	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	12	
R22779	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	1	
R22780-85	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	6	
R22786-96	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	11	
R22802	ERJ8GEYJ102	M. RESISTOR CH 1/8W 1K	1	
R22803	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22804	ERJ8GEYJ102	M. RESISTOR CH 1/8W 1K	1	
R22805	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	1	
R22807-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R22812, 13	ERJ8GEYJ222	M. RESISTOR CH 1/8W 2.2K	2	
R22814, 15	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	2	
R22816, 17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22818	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1	
R22819	ERJ8GEYJ300	M. RESISTOR CH 1/8W 30	1	
R22822	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1	
R22823	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R22824	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R22825	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R23101	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R23201, 02	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R23203, 04	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R23205-08	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	4	
R23209-12	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	4	
R23213-16	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R23217	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R23218, 19	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R23220	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R23223, 24	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	2	
R23225	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R23226	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R23227	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R23230	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R23235	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R23236	ERJ3GEYJ623	M. RESISTOR CH 1/16W 62K	1	
R23237	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R23238	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R23239	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R23241	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R23243, 44	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R23245	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R23246-51	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R23301	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R23302, 03	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R23304, 05	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R23306-09	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	4	
R23310, 11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R23312, 13	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R23314, 15	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R23316-19	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	4	
R23320, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R23322-24	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	3	
TG22303, 04	EYF6CU	TEST POINT	2	
TG22505, 06	EYF6CU	TEST POINT	2	
TG23201	EYF6CU	TEST POINT	1	
TP22101-04	EYF6CU	TEST POINT	4	
TP22202, 03	EYF6CU	TEST POINT	2	
TP22207	EYF6CU	TEST POINT	1	
TP22210-14	EYF6CU	TEST POINT	5	
TP22301, 02	EYF6CU	TEST POINT	2	
TP22305, 06	EYF6CU	TEST POINT	2	
TP22401-08	EYF6CU	TEST POINT	8	
TP22501-04	EYF6CU	TEST POINT	4	
TP22507, 08	EYF6CU	TEST POINT	2	
TP23201-04	EYF6CU	TEST POINT	4	
		MISCELLANEOUS		
	VJF1310	CONNECTOR HOLDER	1	
■ E15	VEP83469B	V OUT 1 P. C. BOARD	1 (RTL)	
C1201	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1203, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1207, 08	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C1209	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C1210-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C1213	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1214	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C1215	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1218	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1219, 20	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	2	
C1221-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C1224	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C1225	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1226	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1228	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1229	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1230	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
C1231	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C1232	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1233	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C1234	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C1235	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1236	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C1237	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1238, 39	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1240	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C1241	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1243, 44	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C1245, 46	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1301	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1303	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1304	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C1306, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1310	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1312	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1314	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1316	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1318	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1319	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1320	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1401, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1403	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C1404, 05	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C1406, 07	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	2	
C1408	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C1409, 10	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	2	
C1411, 12	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C1413	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1416-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C1420, 21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C1422, 23	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2	
C1424, 25	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C1426, 27	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C1430-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C1501	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C1503	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C1504	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C1505	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C1506	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C1507	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C1508	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1509	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C1510	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C1511, 12	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C1513	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1514	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1515-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C1523, 24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1526	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1527	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
D1202	MA142WK	DIODE	1	
D1502	MA28WA	DIODE	1	
FL1201	VLF1354	FILTER	1	
FL1401, 02	VLF1476	FILTER	2	
IC1201	TC7S08FU	IC	1	
IC1202	NJM082BV	IC	1	
IC1203	TC7S00FU	IC	1	
IC1204	AD828AR	IC	1	
IC1205	NJM78L09UA	IC	1	
IC1206	AN77L05M	IC	1	
IC1207	XC62DN5002P	IC	1	
IC1301	AD828AR	IC	1	
IC1302	MC14053BDT	IC	1	
IC1303	NJM2534V	IC	1	
IC1401	TC7S08FU	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1402	NJM082BV	IC	1	
IC1403	AD828AR	IC	1	
IC1404	NJM082BV	IC	1	
IC1501	TC7S00FU	IC	1	
IC1502, 03	NJM2534V	IC	2	
IC1504	AD828AR	IC	1	
L1201, 02	VLQ0319K101	COIL 100UH	2	
L1206	VLQ0426J2R2	COIL 2. 2UH	1	
L1207	VLQ0426J680	COIL 68UH	1	
L1401, 02	VLQ0319K101	COIL 100UH	2	
L1403, 04	VLQ0426J68	COIL 6. 8UH	2	
L1501	VLQ0426J180	COIL 18UH	1	
L1502	VLQ0426J220	COIL 22UH	1	
L1503	VLQ0426J180	COIL 18UH	1	
L1504	VLQ0426J220	COIL 22UH	1	
L1505, 06	VLQ0319K101	COIL 100UH	2	
P1102	VJP3125B012	CONNECTOR (MALE)	1	
P1103	VJS3791D040	CONNECTER (FEMALE)	1	
P1104	VJP3125B004	CONNECTOR (MALE) 4P	1	
Q1201-03	2SD1819A-R	TRANSISTOR	3	
Q1204	2SK198-R	TRANSISTOR	1	
Q1205	2SC3930-B	TRANSISTOR	1	
Q1206	2SB1218A-R	TRANSISTOR	1	
Q1207	2SA1532-B	TRANSISTOR	1	
Q1208	2SB1218A-R	TRANSISTOR	1	
Q1209	2SC3930-B	TRANSISTOR	1	
Q1210	2SD1819A-R	TRANSISTOR	1	
Q1211-13	2SB1218A-R	TRANSISTOR	3	
Q1301	2SB1218A-R	TRANSISTOR	1	
Q1302	2SD1819A-R	TRANSISTOR	1	
Q1304-06	2SA1532-B	TRANSISTOR	3	
Q1307	2SD1819A-R	TRANSISTOR	1	
Q1401, 02	2SD1819A-R	TRANSISTOR	2	
Q1403-06	2SA1532-B	TRANSISTOR	4	
Q1407-10	2SD1819A-R	TRANSISTOR	4	
Q1411, 12	2SK198-R	TRANSISTOR	2	
Q1501, 02	2SD1819A-R	TRANSISTOR	2	
Q1503	2SB1218A-R	TRANSISTOR	1	
Q1504	2SD1819A-R	TRANSISTOR	1	
Q1505	2SA1532-B	TRANSISTOR	1	
QR1201, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR1401, 02	UN5213	TRANSISTOR-RESISTOR	2	
R1101	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1106-16	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	11	
R1201, 02	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R1203	ERJ3RBD682	M. RESISTOR CH 1/16W 6. 8K	1	
R1204, 05	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R1206	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1207	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R1208	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1209	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1210	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1211	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1212	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1213	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R1214	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1215	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1216	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R1217	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1218	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R1219	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R1220	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R1221	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R1222	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R1223	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R1224	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1227	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1228	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1229, 30	ERJ3RBD471	M. RESISTOR CH 1/16W 470	2	
R1231, 32	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1233	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1234	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1235	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
R1236	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R1237, 38	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	2	
R1239	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R1240	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1241	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R1242	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R1243	ERJ3RBD101	M. RESISTOR CH 1/16W 1K	1	
R1244	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R1245, 46	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1247	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R1248	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R1249	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
R1250, 51	ERJ3GEYG152	M. RESISTOR CH 1/16W 1. 5K	2	
R1252	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R1253	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R1254	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1255	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R1256	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1257	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1258	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R1259	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1260	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R1261	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R1263	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R1264	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1266	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R1267, 68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R1269	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R1270	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1271	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1301	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1302	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1303	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1304	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1305	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R1306	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R1307	ERJ3GEYG152	M. RESISTOR CH 1/16W 1. 5K	1	
R1308	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1309, 10	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R1311	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1312	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R1313	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R1315	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R1316	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1318	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1320	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1322	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1323	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R1324	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R1325	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R1326, 27	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	2	
R1328	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1329	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1330	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1331	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R1332	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1334	ERJ3RBD682	M. RESISTOR CH 1/16W 6. 8K	1	
R1335	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1336	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R1337	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1338	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1339	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1402	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1404	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1405, 06	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	2	
R1407-10	ERJ3RBD681	M. RESISTOR CH 1/16W 680	4	
R1411	ERJ3GEYG152	M. RESISTOR CH 1/16W 1. 5K	1	
R1412	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1413	ERJ3GEYG152	M. RESISTOR CH 1/16W 1. 5K	1	
R1414	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1415	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R1416	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1417	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1418	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R1419	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R1420	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1421	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R1422	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1423	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1424	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R1425	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1426	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1427	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1428	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1429	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1430	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1431, 32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1433, 34	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1435, 36	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R1437	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1438, 39	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R1440	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1441, 42	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R1445, 46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1447, 48	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R1449	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R1450	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R1451	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R1452	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R1453, 54	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R1455	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1456	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R1457, 58	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1459	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R1460, 61	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R1462, 63	ERJ6RED750	M. RESISTOR CH 1/10W 75	2	
R1466, 67	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R1469	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1501	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1502	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1503	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1504	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R1506	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1507	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1509, 10	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R1511	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R1512	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1513, 14	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1515	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R1516	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1517	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1518	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R1519	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1520, 21	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1522	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1525	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1526-29	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R1530, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1532, 33	ERJ3RED750	M. RESISTOR CH 1/16W 75	2	
R1535	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
TG1201	EYF6CU	TEST POINT	1	
TG1301	EYF6CU	TEST POINT	1	
TG1401	EYF6CU	TEST POINT	1	
TP1201	EYF6CU	TEST POINT	1	
TP1301-03	EYF6CU	TEST POINT	3	
TP1401, 02	EYF6CU	TEST POINT	2	
TP1501	EYF6CU	TEST POINT	1	
VR1201	VRV0161B501	V. RESISTOR 500	1	
VR1202-04	VRV0161B102	V. RESISTOR 1K	3	
VR1401, 02	VRV0161B102	V. RESISTOR 1K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E16	VEP83470B	V OUT 2 P.C BOARD	1	(RTL)
C201	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C203, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C207, 08	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C209	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C210-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C213	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C214	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C215	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C218	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C219, 20	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	2	
C221-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C224	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C225	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C226	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C228	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C229	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C230	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
C231	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C232	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C233	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C234	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C235	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C236	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C237	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C238, 39	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C240	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C241	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C243, 44	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C245, 46	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C301	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C303	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C304	ECUX1H1000CV	C. CAPACITOR CH 50V 10P	1	
C306, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C310	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C312	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C314	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C316	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C318	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C319	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C320	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C401, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C403	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C404, 05	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C406, 07	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	2	
C408	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C409, 10	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	2	
C411, 12	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C413	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C416-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C420, 21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C422, 23	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2	
C424, 25	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C426, 27	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C430-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C501	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C503	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C504	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C505	ECUX1H1000CV	C. CAPACITOR CH 50V 10P	1	
C506	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C507	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C508	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C509	ECUX1H1000CV	C. CAPACITOR CH 50V 10P	1	
C510	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C511, 12	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C513	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C514	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C515-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C523, 24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C526	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C527	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D202	MA142WK	DIODE	1	
D502	MA28WA	DIODE	1	
FL201	VLF1354	FILTER	1	
FL401, 02	VLF1476	FILTER	2	
IC201	TC7S08FU	IC	1	
IC202	NJM082BV	IC	1	
IC203	TC7S00FU	IC	1	
IC204	AD828AR	IC	1	
IC205	NJM78L09UA	IC	1	
IC206	AN77L05M	IC	1	
IC207	XC62DN5002P	IC	1	
IC301	AD828AR	IC	1	
IC302	MC14053BDT	IC	1	
IC303	NJM2534V	IC	1	
IC401	TC7S08FU	IC	1	
IC402	NJM082BV	IC	1	
IC403	AD828AR	IC	1	
IC404	NJM082BV	IC	1	
IC501	TC7S00FU	IC	1	
IC502, 03	NJM2534V	IC	2	
IC504	AD828AR	IC	1	
L201, 02	VLQ0319K101	COIL 100UH	2	
L206	VLQ0426J2R2	COIL 2. 2UH	1	
L207	VLQ0426J680	COIL 68UH	1	
L401, 02	VLQ0319K101	COIL 100UH	2	
L403, 04	VLQ0426J68R	COIL 6. 8UH	2	
L501	VLQ0426J180	COIL 18UH	1	
L502	VLQ0426J220	COIL 22UH	1	
L503	VLQ0426J180	COIL 18UH	1	
L504	VLQ0426J220	COIL 22UH	1	
L505, 06	VLQ0319K101	COIL 100UH	2	
P102	VJP3125B014	CONNECTOR (MALE)	1	
P103	VJS3791D040	CONNECTER (FEMALE)	1	
P104	VJP3125B005	CONNECTOR (MALE) 5P	1	
Q201-03	2SD1819A-R	TRANSISTOR	3	
Q204	2SK198-R	TRANSISTOR	1	
Q205	2SC3930-B	TRANSISTOR	1	
Q206	2SB1218A-R	TRANSISTOR	1	
Q207	2SA1532-B	TRANSISTOR	1	
Q208	2SB1218A-R	TRANSISTOR	1	
Q209	2SC3930-B	TRANSISTOR	1	
Q210	2SD1819A-R	TRANSISTOR	1	
Q211-13	2SB1218A-R	TRANSISTOR	3	
Q301	2SB1218A-R	TRANSISTOR	1	
Q302	2SD1819A-R	TRANSISTOR	1	
Q304-06	2SA1532-B	TRANSISTOR	3	
Q307	2SD1819A-R	TRANSISTOR	1	
Q401, 02	2SD1819A-R	TRANSISTOR	2	
Q403-06	2SA1532-B	TRANSISTOR	4	
Q407-10	2SD1819A-R	TRANSISTOR	4	
Q411, 12	2SK198-R	TRANSISTOR	2	
Q501, 02	2SD1819A-R	TRANSISTOR	2	
Q503	2SB1218A-R	TRANSISTOR	1	
Q504	2SD1819A-R	TRANSISTOR	1	
Q505	2SA1532-B	TRANSISTOR	1	
QR201, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR401, 02	UN5213	TRANSISTOR-RESISTOR	2	
R101	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R106-16	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	11	
R201, 02	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R203	ERJ3RBD682	M. RESISTOR CH 1/16W 6. 8K	1	
R204, 05	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R206	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R207	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R208	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R209	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R210	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R211	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R212	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R213	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R214	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R215	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R216	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R217	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R218	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R219	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R220	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R221	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R222	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R223	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R224	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R227	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R228	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R229, 30	ERJ3RBD471	M. RESISTOR CH 1/16W 470	2	
R231, 32	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R233	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R234	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R235	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
R236	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R237, 38	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	2	
R239	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R240	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R241	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R242	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R243	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R244	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R245, 46	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R247	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R248	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R249	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
R250, 51	ERJ3GEYG152	M. RESISTOR CH 1/16W 1. 5K	2	
R252	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R253	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R254	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R255	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R256	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R257	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R258	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R259	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R260	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R261	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R263	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R264	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R266	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R267, 68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R269	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R270	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R271	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R301	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R302	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R303	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R304	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R305	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R306	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R307	ERJ3GEYG152	M. RESISTOR CH 1/16W 1. 5K	1	
R308	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R309, 10	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R311	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R312	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R313	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R315	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R316	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R318	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R320	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R322	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R323	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R324	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R325	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R326, 27	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	2	
R328	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R329	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R330	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R331	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R332	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R334	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R335	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R336	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R337	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R338	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R339	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R402	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R404	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R405, 06	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R407-10	ERJ3RBD681	M. RESISTOR CH 1/16W 680	4	
R411	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R412	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R413	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R414	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R416	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R417	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R418	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R419	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R420	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R421	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R422	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R423	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R424	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R425	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R426	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R427	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R428	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R429	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R430	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R431, 32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R433, 34	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R435, 36	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R437	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R438, 39	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R440	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R441, 42	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R445, 46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R447, 48	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R449	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R450	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R451	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R452	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R453, 54	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R455	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R456	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R457, 58	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R459	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R460, 61	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R462, 63	ERJ6RED750	M. RESISTOR CH 1/10W 75	2	
R466, 67	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R469	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R501	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R502	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R503	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R504	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R506	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R507	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R509, 10	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R511	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R512	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R513, 14	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R515	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R516	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R517	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R518	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R519	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R520, 21	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R522	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R525	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R526-29	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R530, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R532, 33	ERJ3RED750	M. RESISTOR CH 1/16W 75	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R535	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
TG201	EYF6CU	TEST POINT	1	
TG301	EYF6CU	TEST POINT	1	
TG401	EYF6CU	TEST POINT	1	
TP201	EYF6CU	TEST POINT	1	
TP301-03	EYF6CU	TEST POINT	3	
TP401, 02	EYF6CU	TEST POINT	2	
TP501	EYF6CU	TEST POINT	1	
VR201	VRV0161B501	V. RESISTOR 500	1	
VR202-04	VRV0161B102	V. RESISTOR 1K	3	
VR401, 02	VRV0161B102	V. RESISTOR 1K	2	
■ E17	VEP83471A	ENCODER VR 1 P. C. BOARD	1	(RTL)
C1	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
P1	VJS3927C008J	CONNECTOR (FEMALE)	1	
P2	VJS3927C012J	CONNECTOR (FEMALE)	1	
R1, R2	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R3	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4, R5	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R6	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R7-14	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	8	
SW1	VSR0066	SWITCH	1	
TP1-P8	EYF6CU	TEST POINT	8	
VR1-R3	VRV0280	V. RESISTOR	3	
VR4-R6	VRV0279	V. RESISTOR	3	
VR7	VRV0303B503	V. RESISTOR 50K	1	
■ E18	VEP83472A	ENCODER VR 2 P. C. BOARD	1	(RTL)
C1	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
P1	VJS3927C008J	CONNECTOR (FEMALE)	1	
P2	VJS3927C012J	CONNECTOR (FEMALE)	1	
R1, R2	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R3	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4, R5	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R6	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R7-14	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	8	
SW1	VSR0066	SWITCH	1	
TP1-P8	EYF6CU	TEST POINT	8	
VR1-R3	VRV0280	V. RESISTOR	3	
VR4-R6	VRV0279	V. RESISTOR	3	
VR7	VRV0303B503	V. RESISTOR 50K	1	
■ E19	VEP83473B	DIGITAL 1 P. C. BOARD	1	(RTL)
■	VEP88234Z	DV UCOM P. C. BOARD	1	(RTL) FOR VEP83473B



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1-C4	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C30001-09	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	9	
C30101-04	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C30201-03	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C30301-13	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	13	
C30403-05	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C30407-14	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	8	
C30501	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C30502	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C30503-08	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	6	
C30509	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30510	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C30511	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C30512	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30513-19	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	7	
C30520	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30521	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C30522-24	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C30601	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C30602	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C30603	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C30604-07	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C30701-08	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	8	
C30801-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	10	
C30812-19	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	8	
C30820	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C30901-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	10	
C31001-12	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	12	
C31101-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	10	
C31201-15	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	15	
C31216	EEVHBOJ470	E. CAPACITOR 6.3V 47U	1	
C31217	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31218	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31219-22	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C31223	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31224	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31225	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31226	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31227	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31228	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31303	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C31304-11	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	8	
C31401-03	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C31501-04	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C31601-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	10	
C31701	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31702-04	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C31705	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C31706-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	5	
C31712	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C31713	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C31714-17	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C31801	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31802, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C31804	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C31805	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31806	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31807	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31808	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C31809, 10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C31811	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C31812	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31813	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31814	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C31815, 16	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C31817	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C31818	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C31819	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C31820	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C31821	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C31822	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C31823	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31824	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C31825-27	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C31830	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C31901	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31902	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31903	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C31904	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31905	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C31906	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31907	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31908-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C31911	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31912	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31913	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C31914	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31915	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31916	ECEV1VAN2R2	E. CAPACITOR CH 35V 2.2U	1	
C31917	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31918, 19	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C31920	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C31921	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31922	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C31923	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C31924	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31925	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31926, 27	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C31928	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31930	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C31931	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C31932	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C31933-35	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C31937	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C32001-03	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C32004	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32005-08	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C32009	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C32010-12	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C32013	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32014-17	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C32018	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C32019	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32020	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C32021	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C32022-25	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C32026	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C32027-29	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C32101-13	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	13	
C32201-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	10	
C32301-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	10	
C32311, 12	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C32401-06	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	6	
C32407	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32501-05	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	5	
C32506	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32507, 08	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C32509	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32510	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C32511, 12	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C32513	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C32514, 15	EEVHBOJ470	E. CAPACITOR 6.3V 47U	2	
C32516-18	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C32519	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32520-25	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	6	
C32526, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C32528-35	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	8	
C32536	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32537, 38	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C32539	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C32540-42	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C32601-06	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	6	
C32607	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32701	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C32702	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C32703-05	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C32706	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C32707	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C32801	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C32805-08	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C32810	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C32901-17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	17	
C33101-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C33104	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33105, 06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33107, 08	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C33109	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33110	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33111, 12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C33113, 14	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C33115	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33116	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33117, 18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C33119	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C33120, 21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33122, 23	EEVHBOJ330	E. CAPACITOR 6.3V 33U	2	
C33124	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33125	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33126, 27	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33128, 29	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C33130	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33131	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33132, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34001-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	14	
C34101-09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C53001, 02	EEVHB1C470	E. CAPACITOR 16V 47U	2	
C53005, 06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53008	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C53012	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C53013	ECST1AC476Z	T. CAPACITOR CH 10V 47U	1	
C53015	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C53016, 17	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53019	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C53021	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C53023	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C53101, 02	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	2	
C53103-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C53106, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C53108-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C53112	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53113	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
C53114	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C53119, 20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C53122	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C53124, 25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C53126	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53131, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C53137, 38	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C53143, 44	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53145, 46	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C53147, 48	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C53149	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53151, 52	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C53153-55	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C53156, 57	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C53158-61	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C53162	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53163	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
C53164	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C53169, 70	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C53172	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C53174, 75	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C53176	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53181, 82	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53187, 88	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C53193, 94	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C53195, 96	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C53197, 98	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C53199	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53501	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C53502	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C53503	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C53504-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	28	
C53532	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C53533-37	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C53539	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53540	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C53601	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C53602	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C53603	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C53604-31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	28	
C53632	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C53633-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C53639	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53701	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C53702	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C53703-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
D30501, 02	M1MA152K	DIODE	2	
D31201-03	MA729	DIODE	3	
D31801	MA142WK	DIODE	1	
D31901	MA142K	DIODE	1	
D31902	MA335-R	DIODE	1	
D31903	M1MA152K	DIODE	1	
D32001	M1MA152K	DIODE	1	
D32501, 02	MA715	DIODE	2	
D32801-03	MA729	DIODE	3	
D32901-03	MA715	DIODE	3	
D33101, 02	MA701A	DIODE	2	
D53001	MA701A	DIODE	1	
D53701	MA142K	DIODE	1	
FL31901	VLF1016A223	FILTER	1	
FL32001, 02	VLF0941C223	FILTER	2	
FL33101-10	VLF1016A223	FILTER	10	
FL53001, 02	VLF0931	FILTER	2	
IC1	M31020EAVP	IC	1	
IC30001	PZ3960C7EB	IC	1	
IC30002	VS13443	IC	1	
IC30101-04	TVHC244FT	IC	4	
IC30201, 02	TVHC244FT	IC	2	
IC30203	TC7SH08FU	IC	1	
IC30301	TVHC04FT	IC	1	
IC30302	MN47V78SP	IC	1	
IC30303	T160G70-1601	IC	1	
IC30304	MN47V78SP	IC	1	
IC30403, 04	TVHC541FT	IC	2	
IC30405	TVHC244FT	IC	1	
IC30406	TVHT244FT	IC	1	
IC30408	TC7SH04FU	IC	1	
IC30409	TC7SH32FU	IC	1	
IC30410-14	TVHC574FT	IC	5	
IC30501	TVHC157FT	IC	1	
IC30502	DM74LS123SJ	IC	1	
IC30503	TC7SH04FU	IC	1	
IC30504	MC74HC125AF	IC	1	
IC30505	TLXC244FT	IC	1	
IC30506	TVHC163FT	IC	1	
IC30507	NJM082BV	IC	1	
IC30508	TC4W53FU	IC	1	
IC30509	TVHC244FT	IC	1	
IC30510-13	TLXC244FT	IC	4	
IC30514	TC7SH08FU	IC	1	
IC30601	L7A1644	IC	1	
IC30701, 02	MN4707F	IC	2	
IC30801	TVHC244FT	IC	1	
IC30802, 03	MN67373	IC	2	
IC30805	TVHC244FT	IC	1	
IC30806	TVHC74FT	IC	1	
IC30901	TC7SH04FU	IC	1	
IC30902	TC7W125FU	IC	1	
IC30903, 04	TVHC244FT	IC	2	
IC30905	MB81V4260S7	IC	1	
IC30906	L7A1645	IC	1	
IC30907	TC7W241FU	IC	1	
IC31001	TLCX125FT	IC	1	
IC31002	MB81V4260S7	IC	1	
IC31003	M65501FP	IC	1	
IC31004	TLCX125FT	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC31101	MB81V4260S7	IC	1	
IC31102	M6501FP	IC	1	
IC31201	TC7SH04FU	IC	1	
IC31202	TVHC74FT	IC	1	
IC31203	MC10H124M	IC	1	
IC31204, 05	TVHC74FT	IC	2	
IC31206	TVHC153FT	IC	1	
IC31207, 08	TVHC244FT	IC	2	
IC31209	XC62FP3302P	IC	1	
IC31210	TLCX244FT	IC	1	
IC31211	MN47V76SP	IC	1	
IC31212	TLCX244FT	IC	1	
IC31213	L7A1645	IC	1	
IC31214	MN47V76SP	IC	1	
IC31215	TVHC244FT	IC	1	
IC31302	TC7SH04FU	IC	1	
IC31303	TC7SH32FU	IC	1	
IC31304	TLCX245FT	IC	1	
IC31305, 06	TLCX573FT	IC	2	
IC31307	TLCX138FT	IC	1	
IC31308	IDT71V321L5F	IC	1	
IC31309, 10	TC7SH32FU	IC	2	
IC31401-03	TVHC244FT	IC	3	
IC31501	UPD65943G028	IC	1	
IC31601	TLCX574FT	IC	1	
IC31602	T203E3801AF1	IC	1	
IC31701	TVHC221FT	IC	1	
IC31702	UPD65650J203	IC	1	
IC31703	TVHC244FT	IC	1	
IC31704	TC7SH08FU	IC	1	
IC31705	TC7SH04FU	IC	1	
IC31706, 07	TC7SH08FU	IC	2	
IC31801	AN91A12S	IC	1	
IC31802	NE521D	IC	1	
IC31803	MC74HC04AF	IC	1	
IC31804-06	TVHC221FT	IC	3	
IC31901	MC14053BDT	IC	1	
IC31902	TC7SH08FU	IC	1	
IC31903, 04	NJM082BV	IC	2	
IC31905	NE521D	IC	1	
IC31906	NJM78L09UA	IC	1	
IC31907, 08	TC7SH00FU	IC	2	
IC31909	MC74HC125AF	IC	1	
IC32001, 02	TVHT374FT	IC	2	
IC32003	TVHC574FT	IC	1	
IC32004	DAC10GS	IC	1	
IC32005	NJM082BV	IC	1	
IC32006	TC7SH04FU	IC	1	
IC32007	NJM082BV	IC	1	
IC32008	TVHC74FT	IC	1	
IC32009	TLCX244FT	IC	1	
IC32010	TVHC244FT	IC	1	
IC32011	TVHT244FT	IC	1	
IC32012	TC7SH08FU	IC	1	
IC32101	TC7SH04FU	IC	1	
IC32102	TLCX541FT	IC	1	
IC32103	TLCX574FT	IC	1	
IC32104, 05	TVHC244FT	IC	2	
IC32106	TLCX574FT	IC	1	
IC32107	TVHT244FT	IC	1	
IC32108, 09	TVHT374FT	IC	2	
IC32110	MB87D132	IC	1	
IC32201	T160G70-1601	IC	1	
IC32202, 03	MN47V78SP	IC	2	
IC32204, 05	TLCX541FT	IC	2	
IC32206, 07	TVHC541FT	IC	2	
IC32301	TC7SH32FU	IC	1	
IC32302	UPD65944G020	IC	1	
IC32303, 04	UPD485506G25	IC	2	
IC32401, 02	TVHT541FT	IC	2	
IC32403	UPD485506G25	IC	1	
IC32404, 05	TVHC541FT	IC	2	
IC32501-03	TVHT541FT	IC	3	
IC32504	UPD485506G25	IC	1	
IC32505, 06	ADV7171KS	IC	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC32507	AD9300KP	IC	1	
IC32508, 09	TVHC541FT	IC	2	
IC32510	NE521D	IC	1	
IC32601, 02	TVHT541FT	IC	2	
IC32603	UPD485506G25	IC	1	
IC32604, 05	TVHC541FT	IC	2	
IC32701	ADV7122KST50	IC	1	
IC32702	AD589JR	IC	1	
IC32801	THC4053FT	IC	1	
IC32802	NJM084V	IC	1	
IC32803	XC62FP3302P	IC	1	
IC32901, 02	SN74S1051NS	IC	2	
IC32903, 04	TVHT541FT	IC	2	
IC32905-07	TVHC541FT	IC	3	
IC32908	TVHC245FT	IC	1	
IC32909	TVHC139FT	IC	1	
IC32910	TVHC245FT	IC	1	
IC32911	HD151015	IC	1	
IC32912	T163G26-1019	IC	1	
IC32913	TVHT244FT	IC	1	
IC33101-04	XC62FP5002P	IC	4	
IC33105	XC62DN5002P	IC	1	
IC33106	XC62FP2302P	IC	1	
IC34001	UG10358B	IC	1	
IC34002	UPD485506G25	IC	1	
IC34003	UPD65013F101	IC	1	
IC34004-07	TLCX541FT	IC	4	
IC34008, 09	TLCX574FT	IC	2	
IC34101	PZ3960C7EB	IC	1	
IC34102	VS13444	IC	1	
IC53001	LT1086CM	IC	1	
IC53003	LT1129CS8	IC	1	
IC53004	LT1175CS8	IC	1	
IC53101	UPC1663G	IC	1	
IC53151	UPC1663G	IC	1	
IC53501	MN673796	IC	1	
IC53502	NJM084V	IC	1	
IC53503	TVHC574FT	IC	1	
IC53504	TVHC244FT	IC	1	
IC53601	MN673796	IC	1	
IC53602	NJM084V	IC	1	
IC53603	TVHC574FT	IC	1	
IC53701	TC7W04FU	IC	1	
IC53702	TVHC157FT	IC	1	
IC53703	TVHC244FT	IC	1	
IC53704	TVHC157FT	IC	1	
IC53705	S80727ANDQ	IC	1	
IC53706	TC4S69F	IC	1	
IS30002	VJS3096308	CONNECTOR (FEMALE)	1	
IS34102	VJS3096308	CONNECTOR (FEMALE)	1	
L30501-03	VLQ0319K470	COIL 47UH	3	
L31701	VLQ0319K470	COIL 47UH	1	
L31801	VLQ0319K221	COIL 220UH	1	
L31802	VLQ0319K101	COIL 100UH	1	
L31803	VLQ0163J390	COIL 39UH	1	
L31804	VLQ0319K470	COIL 47UH	1	
L31901	VLQ0319K470	COIL 47UH	1	
L31902	VLQ0163J221	COIL 220UH	1	
L31903-06	VLQ0319K470	COIL 47UH	4	
L32001-03	VLQ0319K470	COIL 47UH	3	
L32501-04	VLQ0319K220	COIL 22UH	4	
L32701	VLQ0576	COIL	1	
L32702	VLQ0319K101	COIL 100UH	1	
L33101-03	VLP0133	COIL	3	
L53001-03	ERJ14Y0R00	M. RESISTOR CH 1/4W 0	3	
L53102	VLQ0163J5R6	COIL 5.6UH	1	
L53152	VLQ0163J5R6	COIL 5.6UH	1	
P1	VJP4106A120L	CONNECTOR (MALE)	1	
P30001	VJP3950C007	CONNECTOR (MALE)	1	
P31302	VJS4106A120L	CONNECTOR (FEMALE)	1	
P32701	VJP3125B012	CONNECTOR (MALE)	1	
P33201, 02	VJS4313D080	CONNECTOR (FEMALE)	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P33203	VJP3950A003	CONNECTOR (MALE)	1	
P33204	VJP3125B012	CONNECTOR (MALE)	1	
P33205, 06	VJS4313D080	CONNECTOR (FEMALE)	2	
P33207	VJP3927D012	CONNECTOR (MALE)	1	
P33208	VJP3927D008	CONNECTOR (MALE)	1	
P33301	VJS4313D080	CONNECTOR (FEMALE)	1	
P33302	VJS4329A030	CONNECTOR (FEMALE)	1	
P33303	VJP2739B008	CONNECTOR (MALE)	1	
P33304	VJS3406D010	CONNECTOR (FEMALE)	1	
P33305, 06	VJS3406D012	CONNECTOR (FEMALE)	2	
P34101	VJP3950C007	CONNECTOR (MALE)	1	
P53001	VJS4313D080	CONNECTOR (FEMALE)	1	
Q31901	2SB709A-R	TRANSISTOR	1	
Q31902, 03	2SK608-R	TRANSISTOR	2	
Q32501-03	2SB1218A-R	TRANSISTOR	3	
Q32504	2SD1819A-R	TRANSISTOR	1	
Q32505	2SB1218A-R	TRANSISTOR	1	
Q32701-03	2SB1218A-R	TRANSISTOR	3	
Q53101	2SC3930-B	TRANSISTOR	1	
Q53102	XN6537	TRANSISTOR-RESISTOR	1	
Q53103	2SC3930-B	TRANSISTOR	1	
Q53104	XN5531	TRANSISTOR-RESISTOR	1	
Q53105	2SC3930-B	TRANSISTOR	1	
Q53107	2SA1532-B	TRANSISTOR	1	
Q53109, 10	2SK508K512	TRANSISTOR	2	
Q53111, 12	2SC3935	TRANSISTOR	2	
Q53151	2SC3930-B	TRANSISTOR	1	
Q53152	XN6537	TRANSISTOR-RESISTOR	1	
Q53153	2SC3930-B	TRANSISTOR	1	
Q53154	XN5531	TRANSISTOR-RESISTOR	1	
Q53155	2SC3930-B	TRANSISTOR	1	
Q53157	2SA1532-B	TRANSISTOR	1	
Q53159, 60	2SK508K512	TRANSISTOR	2	
Q53161, 62	2SC3935	TRANSISTOR	2	
Q53501, 02	2SA1532-B	TRANSISTOR	2	
Q53503, 04	2SC3930-B	TRANSISTOR	2	
Q53601, 02	2SA1532-B	TRANSISTOR	2	
Q53603, 04	2SC3930-B	TRANSISTOR	2	
Q53702	2SA1532-B	TRANSISTOR	1	
R30003, 04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30006	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30008	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30010	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30012	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R30033	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30045-47	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R30062-65	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R30093-95	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30101, 02	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R30103	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30104-27	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	24	
R30128	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30129	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30130, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30132-55	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	24	
R30156-63	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R30201	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30203, 04	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R30205-20	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16	
R30301-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30310	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30312-16	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	5	
R30317	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30318-20	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	3	
R30321	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R30323	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R30325	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30327, 28	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30337-44	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	8	
R30403	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30404-07	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R30408, 09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30412-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	23	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R30435-37	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
R30438, 39	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R30440, 41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30442-55	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	14	
R30456, 57	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30460-67	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R30501	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30502, 03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30504, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30506	ERJ3RED394	M. RESISTOR CH 1/16W 390K	1	
R30508-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30511	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R30512-14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30515	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R30516	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30517, 18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30519	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R30520	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R30521-25	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R30526, 27	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	2	
R30528	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30529	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R30530, 31	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R30534	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30535-37	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R30539	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30540-55	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16	
R30557	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30558-61	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R30567, 68	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30573	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30601	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30602	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R30603	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30604-06	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R30607, 08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30610, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30612, 13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30614	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R30615-20	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R30622	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30623	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30701	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30702	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R30703	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30705	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R30801	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30802, 03	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R30804	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30805, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30807	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R30809-11	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R30813	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30814	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30818-26	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	9	
R30828	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R30829, 30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30831	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30901, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30903	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30904, 05	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	2	
R30906, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30908	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30909	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31001	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R31002-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31005	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31006	ERJ66EYOR00	M. RESISTOR CH 1/10W 0	1	
R31007-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31010	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31011	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31012-14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31015	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31016, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31018-21	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R31022	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31024, 25	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31026	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31028, 29	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31030-34	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R31035-40	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R31101	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31102, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31104	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31105	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31106-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31109	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31110	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31111, 12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31113-17	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R31118	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31119, 20	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31121	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31124, 25	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31126-29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R31130-35	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R31201	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31202-05	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R31206	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31207	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31208-11	ERJ3RBD271	M. RESISTOR CH 1/16W 270	4	
R31212-19	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
R31220-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R31225	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31227-31	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R31232	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31233	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31234	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31235	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31236	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31237-39	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31240	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31241	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31242-45	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R31248	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31250	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31253-56	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R31257	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31258	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31259, 60	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31261	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31262-69	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R31270, 71	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31272	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31273	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31274	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31301	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31302	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31303-05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R31307	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31316	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R31319	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31320, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31322, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31324	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31327, 28	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31330	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31331-33	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R31336	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31340, 41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31343	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R31344-46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R31347, 48	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31349-54	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R31355	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31356, 57	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31358, 59	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31402	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31406-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R31409-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R31427-32	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R31475	ERDS2TJ182	C. RESISTOR 1/4W 1.8K	1	
R31503	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31505	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31506	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31601	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31602-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31605, 06	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R31607	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31608, 09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31702	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R31703	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R31704	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R31705	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31706	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31707-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31716, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31718	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R31719	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31721	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31722-31	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
R31732	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31734	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31801	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R31802	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R31803	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31804	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R31805	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31806-08	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	3	
R31809	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R31810	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R31811	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R31812	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R31813, 14	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R31815	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31817	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R31818	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R31819	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R31820	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R31821	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R31822, 23	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31824	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31901	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R31902	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R31903	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R31904	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R31905	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31907-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R31913	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R31914	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R31915	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R31916	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R31917	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R31918	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31919	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31920	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31921	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31922	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31923	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R31924	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R31925	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R31926	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31927	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R31928	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31929	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31930, 31	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R31932	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31934	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31936, 37	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31938, 39	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32001, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32003	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32004, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32006	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32007	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R32008	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R32009-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32012	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R32013	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R32014	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R32015	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R32016	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R32017, 18	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R32019	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R32020	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32021	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R32022	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32023	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32024-26	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32028, 29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32030	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32031-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R32037	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32101	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32102, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32104	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32105	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32106	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32107-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32111	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32112-14	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32116-22	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	7	
R32123, 24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32125-27	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R32128, 29	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R32130	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32131, 32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32134	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32140, 41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32202	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32204	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32205	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32206	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32207	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32208	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32209	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32210	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32211, 12	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32213-28	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16	
R32301	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32304	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32305	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32306	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32307-15	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	9	
R32316	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32317	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32318-27	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	10	
R32328	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32329-52	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	24	
R32353	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32401, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32403, 04	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32405, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32407	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32408	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32409, 10	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32411-23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	13	
R32501, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32503, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32505	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32506	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32507	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32508	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32511, 12	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R32513, 14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32515-18	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R32519	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R32520	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32521	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R32522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R32523	ERJ6RBD151	M. RESISTOR CH 1/10W 150	1	
R32525	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R32526	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32527-29	ERJ6RED750	M. RESISTOR CH 1/10W 75	3	
R32531	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R32533	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R32534	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R32535	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R32536	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R32537	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R32538	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R32539, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32543	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32544	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R32545	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R32546, 47	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R32548, 49	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32550-59	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
R32561-63	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32564, 65	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32567	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32568, 69	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R32570	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R32571	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32572	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R32573	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32575-79	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R32601-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32605, 06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32607, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32609	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32610, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32612	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32613	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32614-17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32618	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32619-27	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	9	
R32631-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R32635	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32636	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32701	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32702	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R32703	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R32704	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32705	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R32706	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32707	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R32708	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32709-11	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R32712-14	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R32717-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32722, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32727	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32801	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32802-04	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32902-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32905-09	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
R32910, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32926-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32929-36	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	8	
R32937	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32938-40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R33101, 02	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R33202-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R33215-19	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R33220-23	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R33224	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34001	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R34002, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34005, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34010-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R34013	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R34015	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R34016, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34018	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R34019-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R34023	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R34024-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
R34032, 33	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R34034	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R34103, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34105	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34107, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34113	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34115	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34117	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34118	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34121, 22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34128	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34129	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34135, 36	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34141	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R34144, 45	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34151	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R34160, 61	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34169-71	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R34201-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R34219	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34225	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34227	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34232	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34239	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34248	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34251, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34259-62	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R34263-65	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R53001	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53002	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R53003-06	ERJ3RBD331	M. RESISTOR CH 1/16W 330	4	
R53101, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53103, 04	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R53105	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53106	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53107	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R53108	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R53109	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R53110	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53111	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R53112	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53113, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R53115, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53117, 18	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R53119	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R53120	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53121	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R53122	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53123	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R53125	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53127, 28	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53131	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53133	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53135	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53136, 37	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R53138	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R53140	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53141	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53145	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53146	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53147	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R53148	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53149	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R53151, 52	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53153, 54	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R53155	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53156	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53157	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R53158	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R53159	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R53160	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53161	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R53162	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53163, 64	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R53165, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53167, 68	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R53169	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R53170	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53171	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R53172	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53173	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R53175	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53177, 78	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53181	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53183	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53185	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53186, 87	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R53188	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R53190	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53191	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53195	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53196	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53197	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R53198	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53199	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R53501, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R53503	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53504	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R53505	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53508, 09	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R53510	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53511	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53518	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53519	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53520	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53521	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53524-27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R53529-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R53532	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R53533, 34	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53535	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53536	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53537	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R53538	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R53539, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R53542	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R53543	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53544	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53545	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53546	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R53547	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53548	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53549	ERJ3RBD121	M. RESISTOR CH 1/16W 1.2K	1	
R53550	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R53551	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R53552	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R53553	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R53554	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R53555	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R53556	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53557	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53558	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53559-62	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R53563	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53601, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R53603	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53604	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R53605	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53608, 09	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R53610	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53611	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53618	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53619	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53620	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53621	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53624-27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R53629-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R53632	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R53633, 34	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53635	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53636	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53637	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R53638	ERJ3GEY6471	M. RESISTOR CH 1/16W 470	1	
R53639, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R53642	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R53643	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53644	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53645	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53646	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R53647	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53648	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53649	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R53650	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R53651	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R53652	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R53653	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R53654	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R53655	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R53656	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53657	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53658	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53659-61	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R53663	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53701	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53703	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53704, 05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R53706	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R53707-11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R53712	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R53713	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53714-18	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
R53720	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
TG30101	EYF6CU	TEST POINT	1	
TG30301	EYF6CU	TEST POINT	1	
TG30801	EYF6CU	TEST POINT	1	
TG30901	EYF6CU	TEST POINT	1	
TG31201	EYF6CU	TEST POINT	1	
TG31301	EYF6CU	TEST POINT	1	
TG31701	EYF6CU	TEST POINT	1	
TG31801	EYF6CU	TEST POINT	1	
TG31901	EYF6CU	TEST POINT	1	
TG32201	EYF6CU	TEST POINT	1	
TG32901	EYF6CU	TEST POINT	1	
TG53001	EYF6CU	TEST POINT	1	
TG53101	EYF6CU	TEST POINT	1	
TP30001-04	EYF6CU	TEST POINT	4	
TP30501, 02	EYF6CU	TEST POINT	2	
TP30601	EYF6CU	TEST POINT	1	
TP30801	EYF6CU	TEST POINT	1	
TP30806	EYF6CU	TEST POINT	1	
TP31201	EYF6CU	TEST POINT	1	
TP31701-03	EYF6CU	TEST POINT	3	
TP31801-04	EYF6CU	TEST POINT	4	
TP31901-03	EYF6CU	TEST POINT	3	
TP53101, 02	EYF6CU	TEST POINT	2	
TP53151, 52	EYF6CU	TEST POINT	2	
TP53502	EYF6CU	TEST POINT	1	
TP53507-13	EYF6CU	TEST POINT	7	
TP53602	EYF6CU	TEST POINT	1	
TP53607-13	EYF6CU	TEST POINT	7	
TP53701, 02	EYF6CU	TEST POINT	2	
VC31901	VCV0050	TRIMMER	1	
VR31701	EVM7JGA00B53	V. RESISTOR 5K	1	
VR31801	EVM7JGA00B54	V. RESISTOR 50K	1	
VR31802	EVM7JGA00B14	V. RESISTOR 10K	1	
VR31901	EVM7JGA00B53	V. RESISTOR 5K	1	
VR32001	EVM7JGA00B53	V. RESISTOR 5K	1	
VR32501	EVM7JGA00B52	V. RESISTOR 500	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR32502, 03	EVM7JGA00B13	V. RESISTOR 1K	2	
VR32701-03	EVM7JGA00B22	V. RESISTOR 200	3	
X30501	VSX0906	CRYSTAL OSCILLATOR	1	
X31201	VSX0970	CRYSTAL OSCILLATOR	1	
X31901	VSX0316	CRYSTAL OSCILLATOR	1	
X31902	VSX0567A	CRYSTAL OSCILLATOR	1	
X32001	VSX0788	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	XC1701LPD8C	BLANK ROM	2	
	VMX2971	CARD EDGE SPACER	3	
	VMX2233	PCB SPACER	2	
	VMP6228	P. C. BOARD HOLDER ANGLE	1	
	XYN3-K8	SCREW	2	
	VJF0309	HOLDER	1	
	VMS6279	SPACER	2	
	XYN26+C35	SCREW	2	
	XYN26+C4FN	SCREW	2	
	VSC5075	V1 HEAT SINK	1	
	VMG1321	V1 HEAT CONDUCTIVE SHEET	1	
	XTV3+8F	SCREW	2	
■ E20	VEP83474B	DIGITAL 2 P.C. BOARD	1	(RTL)
■	VEP88234Z	DV UCOM P.C. BOARD	1	(RTL) FOR VEP83474B
C1-C4	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C30001-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C30007	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C30008-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C30151-63	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	13	
C30251-59	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C30351-64	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	14	
C30401-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C30501-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C30601	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C30602	EGUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C30603-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C30607	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C30608	ECUX1H103K8V	C. CAPACITOR CH 50V 0.01U	1	
C30609	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30610	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C30611	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30612-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C30617	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30618	ECUX1H102K8V	C. CAPACITOR CH 50V 1000P	1	
C30619-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C30701	ECUX1H103K8V	C. CAPACITOR CH 50V 0.01U	1	
C30702	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C30703	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C30704	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C30705-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C30801-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C30901-18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	18	
C31001-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C31101-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7	
C31201-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	12	
C31301-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C31401-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	15	
C31416	EEVHB0J470	E. CAPACITOR 6.3V 47U	1	
C31417, 18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C31419	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31420-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C31424	ECUX1H103K8V	C. CAPACITOR CH 50V 0.01U	1	
C31425	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31426	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C31427	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31428	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31429	ECUX1H103K8V	C. CAPACITOR CH 50V 0.01U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C31501	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1	
C31502	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C31503	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C31504-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C31601-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C31701	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C31702	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1	
C31703-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7	
C31801	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C31802	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31803	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31804-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C31809	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31810	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C31811	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31812	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31813	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31901-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	11	
C32001-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C32101-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C32201-17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	17	
C32301-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C32305	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32306	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C32307	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C32308-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C32401-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C32501-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C32601-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C32801-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C32901-03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C33001, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C33004	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33006	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33008	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33010	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33101-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	12	
C33201-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	12	
C33301-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C33311, 12	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C33401-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C33410	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33501-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C33506	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33507	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33508	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33509	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33510	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33511	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33512	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33513	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33514, 15	EEVHBOJ470	E. CAPACITOR 6.3V 47U	2	
C33516	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33517	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C33518	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33519	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C33520	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33521	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C33522-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	14	
C33536	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33537-39	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C33540	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C33541, 42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C33601-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C33607	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33701, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C33703	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C33704, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C33706	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C33707	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C33901-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	16	
C33917	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C34101-03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C34104	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34105, 06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C34107, 08	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C34109	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34110	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34111, 12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34113, 14	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C34115	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34116	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34117, 18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34119	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C34120, 21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34122, 23	EEVHBOJ330	E. CAPACITOR 6.3V 33U	2	
C34124	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34125	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34126, 27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C34128, 29	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C34130	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C34131	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34133-36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C34137	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C54001, 02	EEVHB1C470	E. CAPACITOR 16V 47U	2	
C54005, 06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54008	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C54012	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C54013	ECST1AC476Z	T. CAPACITOR CH 10V 47U	1	
C54015	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C54016, 17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54019	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C54020-23	EEVHB1C470	E. CAPACITOR 16V 47U	4	
C54101, 02	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C54103-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C54106, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54108-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C54112	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54113	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
C54114	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C54119, 20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54122	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C54124, 25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54126	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54131, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54137, 38	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C54143, 44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54145, 46	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54147, 48	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54149	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54151, 52	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C54153-55	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C54156, 57	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54158-61	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C54162	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54163	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
C54164	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C54169, 70	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54172	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C54174, 75	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54176	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54181, 82	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54187, 88	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C54193, 94	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54195, 96	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54197, 98	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54199	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54201, 02	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C54203-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C54206, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54208-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C54212	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54213	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
C54214	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C54219, 20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54222	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C54224, 25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54226	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54231, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54237, 38	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C54243, 44	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54245, 46	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54247, 48	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54249	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54251, 52	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C54253-55	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C54256, 57	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54258-61	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C54262	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54263	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
C54264	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C54269, 70	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54272	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C54274, 75	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54276	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54281, 82	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54287, 88	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C54293, 94	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54295, 96	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54297, 98	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54299	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54301	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C54302	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C54303	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C54304-37	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	34	
C54338	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C54339-42	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C54344-47	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C54348	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54349, 50	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54401	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C54402	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C54403	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C54404-37	ECUX1E104ZV	C. CAPACITOR CH 25V 0.01U	34	
C54438	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C54439-42	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C54444-47	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C54448	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54450	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C54501	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C54502	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C54503	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C54504-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	28	
C54532	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C54533, 34	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54536-38	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C54539	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54540	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C54601	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C54602	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C54603	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C54604-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	28	
C54632	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C54633, 34	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54636-38	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C54639	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54701	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C54702	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C54703-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C54707, 08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
D30601, 02	M1MA152K	D1ODE	2	
D31401-03	MA729	D1ODE	3	
D33001-03	MA729	D1ODE	3	
D33501, 02	MA715	D1ODE	2	
D33901-03	MA715	D1ODE	3	
D34101, 02	MA701A	D1ODE	2	
D54001	MA701A	D1ODE	1	
D54701	MA142K	D1ODE	1	
FL34101-10	VLF1016A223	FILTER	10	
FL54001, 02	VLF0931	FILTER	2	
FL54004	VLF0931	FILTER	1	
IC1	M31020EAVP	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC30001-05	TVHC244FT	IC	5	
IC30006	TC7SH32FU	IC	1	
IC30007	TVHC123FT	IC	1	
IC30008	TVHC32FT	IC	1	
IC30009	TC7SH04FU	IC	1	
IC30010-14	TVHC244FT	IC	5	
IC30151	TVHC04FT	IC	1	
IC30152	MN47V78SP	IC	1	
IC30153	T160G70-1601	IC	1	
IC30154	MN47V78SP	IC	1	
IC30251	PZ3960C7EB	IC	1	
IC30252	VS13446	IC	1	
IC30351-53	TVHT541FT	IC	3	
IC30354, 55	HM530281-20	IC	2	
IC30356, 57	TVHC541FT	IC	2	
IC30358	TC7SH04FU	IC	1	
IC30359-62	TVHC541FT	IC	4	
IC30401-03	TVHC244FT	IC	3	
IC30404	TVHT244FT	IC	1	
IC30405	TVHC244FT	IC	1	
IC30406	TC7S08FU	IC	1	
IC30501	PZ3960C7EB	IC	1	
IC30502	VS13445	IC	1	
IC30601	TVHC157FT	IC	1	
IC30602	DM74LS123SJ	IC	1	
IC30603	MC74HC125AF	IC	1	
IC30604	NJM082BV	IC	1	
IC30605	TVHC163FT	IC	1	
IC30606-10	TLXC244FT	IC	5	
IC30611, 12	TC7SH08FU	IC	2	
IC30701	TVHC574FT	IC	1	
IC30702	L7A1644	IC	1	
IC30801, 02	MN4707F	IC	2	
IC30901	TVHC244FT	IC	1	
IC30902	MN67373	IC	1	
IC30903	TVHC74FT	IC	1	
IC30904	MN67373	IC	1	
IC31001	L7A1645	IC	1	
IC31002	MB81V4260S7	IC	1	
IC31101	MN47V78SP	IC	1	
IC31102	TVHC244FT	IC	1	
IC31103-07	MN47V78SP	IC	5	
IC31201	TLXC125FT	IC	1	
IC31202	MB81V4260S7	IC	1	
IC31203	M65501FP	IC	1	
IC31204	TLXC125FT	IC	1	
IC31301	MB81V4260S7	IC	1	
IC31302	M65501FP	IC	1	
IC31401	TC7SH04FU	IC	1	
IC31402	TVHC74FT	IC	1	
IC31403	MC10H124M	IC	1	
IC31404, 05	TVHC74FT	IC	2	
IC31406	TVHC153FT	IC	1	
IC31407, 08	TVHC244FT	IC	2	
IC31409	XC62FP3302P	IC	1	
IC31410	TLXC244FT	IC	1	
IC31411	MN47V76SP	IC	1	
IC31412	TLXC244FT	IC	1	
IC31413	L7A1645	IC	1	
IC31414	MN47V76SP	IC	1	
IC31415	TVHC244FT	IC	1	
IC31416	TLXC244FT	IC	1	
IC31501	TC7SH32FU	IC	1	
IC31502	TLXC245FT	IC	1	
IC31503, 04	TLCX573FT	IC	2	
IC31505	TLCX138FT	IC	1	
IC31506	IDT71V321L5F	IC	1	
IC31507	TVHC08FT	IC	1	
IC31508, 09	TC7SH32FU	IC	2	
IC31601, 02	TVHC244FT	IC	2	
IC31603	TVHC157FT	IC	1	
IC31604	TVHC244FT	IC	1	
IC31701	TC7SH04FU	IC	1	
IC31702	TC7SH32FU	IC	1	
IC31703	TLXC245FT	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC31704, 05	TLCX573FT	IC	2	
IC31706	TLCX138FT	IC	1	
IC31707	IDT71V321L5F	IC	1	
IC31801	TLCX244FT	IC	1	
IC31802	MN47V76SP	IC	1	
IC31803	L7A1645	IC	1	
IC31804	MN47V76SP	IC	1	
IC31901	TLCX125FT	IC	1	
IC31902	MB81V4260S7	IC	1	
IC31903	M65501FP	IC	1	
IC32001	MB81V4260S7	IC	1	
IC32002	M65501FP	IC	1	
IC32101	L7A1645	IC	1	
IC32102	MB81V4260S7	IC	1	
IC32201, 02	MN67373	IC	2	
IC32203	TVHC244FT	IC	1	
IC32301-04	TVHC574FT	IC	4	
IC32305	L7A1644	IC	1	
IC32401, 02	MN4707F	IC	2	
IC32501	UPD65943G028	IC	1	
IC32601	TLCX574FT	IC	1	
IC32602	T203E3801AF1	IC	1	
IC32801, 02	TVHT244FT	IC	2	
IC32803, 04	TLCX244FT	IC	2	
IC32901, 02	TVHC244FT	IC	2	
IC32903	TVHC08FT	IC	1	
IC33001	THC4053FT	IC	1	
IC33002	NJM084V	IC	1	
IC33003	XC62FP3302P	IC	1	
IC33101	TC7SH04FU	IC	1	
IC33102, 03	TVHC244FT	IC	2	
IC33104	TLCX244FT	IC	1	
IC33105, 06	TLCX574FT	IC	2	
IC33107, 08	TLCX244FT	IC	2	
IC33109-12	TLCX574FT	IC	4	
IC33201	T160G70-1601	IC	1	
IC33202, 03	MN47V78SP	IC	2	
IC33204, 05	TVHC541FT	IC	2	
IC33301	TC7SH32FU	IC	1	
IC33302	UPD65944G020	IC	1	
IC33303, 04	UPD485506G25	IC	2	
IC33401, 02	TVHT541FT	IC	2	
IC33403	TC7SH04FU	IC	1	
IC33404	UPD485506G25	IC	1	
IC33405	TVHT541FT	IC	1	
IC33406	TVHT244FT	IC	1	
IC33407	TVHC541FT	IC	1	
IC33408	TVHC244FT	IC	1	
IC33501-03	TVHT541FT	IC	3	
IC33504	UPD485506G25	IC	1	
IC33505, 06	ADV7171KS	IC	2	
IC33507	AD9300KP	IC	1	
IC33508, 09	TVHC541FT	IC	2	
IC33510	NE521D	IC	1	
IC33601, 02	TVHT541FT	IC	2	
IC33603	UPD485506G25	IC	1	
IC33604, 05	TVHC541FT	IC	2	
IC33701	ADV7122KST50	IC	1	
IC33702	AD589JR	IC	1	
IC33901, 02	SN74S1051NS	IC	2	
IC33903, 04	TVHT541FT	IC	2	
IC33905-07	TVHC541FT	IC	3	
IC33908	TVHC245FT	IC	1	
IC33909	TVHC139FT	IC	1	
IC33910	TVHC245FT	IC	1	
IC33911	HD151015	IC	1	
IC33912	T163G26-1019	IC	1	
IC34101-04	XC62FP5002P	IC	4	
IC34105	XC62DN5002P	IC	1	
IC34106, 07	XC62FP2302P	IC	2	
IC54001	LT1086CM	IC	1	
IC54003	LT1129CS8	IC	1	
IC54004	LT1175CS8	IC	1	
IC54101	UPC1663G	IC	1	
IC54151	UPC1663G	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC54201	UPC1663G	IC	1	
IC54251	UPC1663G	IC	1	
IC54301	MN673796	IC	1	
IC54302	UPD65946GY00	IC	1	
IC54303	NJM084V	IC	1	
IC54304, 05	TVHC574FT	IC	2	
IC54306	TVHC244FT	IC	1	
IC54307	TC4W53FU	IC	1	
IC54401	MN673796	IC	1	
IC54402	UPD65946GY00	IC	1	
IC54403	NJM084V	IC	1	
IC54404, 05	TVHC574FT	IC	2	
IC54407	TC4W53FU	IC	1	
IC54501	MN673796	IC	1	
IC54502	NJM084V	IC	1	
IC54503	TVHC574FT	IC	1	
IC54504	TVHC244FT	IC	1	
IC54601	MN673796	IC	1	
IC54602	NJM084V	IC	1	
IC54603	TVHC574FT	IC	1	
IC54701	TC7W04FU	IC	1	
IC54702	S80727ANDQ	IC	1	
IC54703, 04	TVHC244FT	IC	2	
IC54706	TC4S69F	IC	1	
IS30252	VJS3096308	CONNECTOR (FEMALE)	1	
IS30502	VJS3096308	CONNECTOR (FEMALE)	1	
L30601-03	VLQ0319K470	COIL 47UH	3	
L33501-04	VLQ0319K220	COIL 22UH	4	
L33701	VLQ0576	COIL	1	
L33702	VLQ0319K101	COIL 100UH	1	
L34101-03	VLP0133	COIL	3	
L54001-03	ERJ14YOR00	M. RESISTOR CH 1/4W 0	3	
L54102	VLQ0163J5R6	COIL 5.6UH	1	
L54152	VLQ0163J5R6	COIL 5.6UH	1	
L54202	VLQ0163J5R6	COIL 5.6UH	1	
L54252	VLQ0163J5R6	COIL 5.6UH	1	
P1	VJP4106A120L	CONNECTOR (MALE)	1	
P30251	VJP3950C007	CONNECTOR (MALE)	1	
P30501	VJP3950C007	CONNECTOR (MALE)	1	
P31501	VJS4106A120L	CONNECTOR (FEMALE)	1	
P31701	VJS4106A120L	CONNECTOR (FEMALE)	1	
P32701	VJS3791D024	CONNECTOR (FEMALE)	1	
P32702	VJS3791B020	CONNECTOR (FEMALE)	1	
P33701	VJP3125B014	CONNECTOR (MALE)	1	
P34201-05	VJS4313D080	CONNECTOR (FEMALE)	5	
P34206	VJP3125B014	CONNECTOR (MALE)	1	
P34207	VJP3927D012	CONNECTOR (MALE)	1	
P34208	VJP3927D008	CONNECTOR (MALE)	1	
P34301	VJS4313D080	CONNECTOR (FEMALE)	1	
P34302	VEEOK60	D1-2 CABLE	1	
P34303	VJS3406D010	CONNECTOR (FEMALE)	1	
P54001	VJS4313D080	CONNECTOR (FEMALE)	1	
Q33501-03	2SB1218A-R	TRANSISTOR	3	
Q33504	2SD1819A-R	TRANSISTOR	1	
Q33505	2SB1218A-R	TRANSISTOR	1	
Q33701-03	2SB1218A-R	TRANSISTOR	3	
Q54101	2SC3930-B	TRANSISTOR	1	
Q54102	XN6537	TRANSISTOR-RESISTOR	1	
Q54103	2SC3930-B	TRANSISTOR	1	
Q54104	XN5531	TRANSISTOR-RESISTOR	1	
Q54105	2SC3930-B	TRANSISTOR	1	
Q54107	2SA1532-B	TRANSISTOR	1	
Q54109, 10	2SD1979	TRANSISTOR	2	
Q54111, 12	2SC3935	TRANSISTOR	2	
Q54151	2SC3930-B	TRANSISTOR	1	
Q54152	XN6537	TRANSISTOR-RESISTOR	1	
Q54153	2SC3930-B	TRANSISTOR	1	
Q54154	XN5531	TRANSISTOR-RESISTOR	1	
Q54155	2SC3930-B	TRANSISTOR	1	
Q54157	2SA1532-B	TRANSISTOR	1	
Q54159, 60	2SD1979	TRANSISTOR	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q54161, 62	2SC3935	TRANSISTOR	2	
Q54201	2SC3930-B	TRANSISTOR	1	
Q54202	XN6537	TRANSISTOR-RESISTOR	1	
Q54203	2SC3930-B	TRANSISTOR	1	
Q54204	XN5531	TRANSISTOR-RESISTOR	1	
Q54205	2SC3930-B	TRANSISTOR	1	
Q54207	2SA1532-B	TRANSISTOR	1	
Q54209, 10	2SD1979	TRANSISTOR	2	
Q54211, 12	2SC3935	TRANSISTOR	2	
Q54251	2SC3930-B	TRANSISTOR	1	
Q54252	XN6537	TRANSISTOR-RESISTOR	1	
Q54253	2SC3930-B	TRANSISTOR	1	
Q54254	XN5531	TRANSISTOR-RESISTOR	1	
Q54255	2SC3930-B	TRANSISTOR	1	
Q54257	2SA1532-B	TRANSISTOR	1	
Q54259, 60	2SD1979	TRANSISTOR	2	
Q54261, 62	2SC3935	TRANSISTOR	2	
Q54301, 02	2SA1532-B	TRANSISTOR	2	
Q54303, 04	2SC3930-B	TRANSISTOR	2	
Q54401, 02	2SA1532-B	TRANSISTOR	2	
Q54403, 04	2SC3930-B	TRANSISTOR	2	
Q54501, 02	2SA1532-B	TRANSISTOR	2	
Q54503, 04	2SC3930-B	TRANSISTOR	2	
Q54601, 02	2SA1532-B	TRANSISTOR	2	
Q54603, 04	2SC3930-B	TRANSISTOR	2	
Q54702	2SA1532-B	TRANSISTOR	1	
R30001, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30003-23	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	21	
R30024, 25	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30026-28	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R30029, 30	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R30031	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R30032	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30033	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R30034	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30035, 36	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30037-42	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R30043	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R30044-47	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R30048-52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R30053, 54	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R30055	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30056-79	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	24	
R30080-03	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	24	
R30152-59	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
R30161	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30162-68	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	7	
R30169	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30170	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R30171	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30173	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30176, 77	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30178-81	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R30185	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30186-93	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	8	
R30194	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30254, 55	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30257	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30261, 62	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R30265	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30269	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30277-80	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R30300	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30315	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30331-34	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R30348-51	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R30353, 54	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R30355	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30356	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30357, 58	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30359	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30360	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30361	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30362, 63	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R30364-69	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R30401-05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R30406-10	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
R30411-14	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	4	
R30415, 16	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R30417-55	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	39	
R30501, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30503, 04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30506, 07	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R30512	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30513	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30518	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30541-44	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R30555-57	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30561-63	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30564	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30579-83	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R30596-98	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30601	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30602, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30604, 05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30606	ERJ3RED394	M. RESISTOR CH 1/16W 390K	1	
R30607	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30610	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R30611	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30612	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30613	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R30614, 15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30616, 17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30618	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R30619	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R30620	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30621, 22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30623	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30624-29	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R30630, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30632	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30633	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30634	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30635-37	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R30638-59	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	22	
R30660	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30662, 63	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R30665	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30701	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30702	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R30703, 04	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R30705	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30706	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30707, 08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30711	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30712	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30713-18	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R30719	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30720	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30721	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30801	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30802	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30803	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30805	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30901	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30902-09	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R30910, 11	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R30912, 13	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30914-17	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R30920	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30921	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30922	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30924	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30926	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30927-29	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R30931-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R30935	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30937	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30938	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R31001	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31002	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31003-16	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	14	
R31017	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31018, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31101	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31102	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31103	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31104	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31105	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31106	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31107-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31110	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31111	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31112, 13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31114	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31201	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31202, 03	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31204-06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31207	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31208	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31209-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31212	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31213	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31214	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31215	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31216, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31218-21	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R31222-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31226, 27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31228	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31230-32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31233-40	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
R31241, 42	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31243	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31301	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31302-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31305	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31306	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31307, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31309	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31310	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31311, 12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31313-17	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R31318	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31319	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31320, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31324-26	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31327-34	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
R31335	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31336	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31401-04	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R31405, 06	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R31407-10	ERJ3RBD271	M. RESISTOR CH 1/16W 270	4	
R31411-13	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31414, 15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31416	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31417-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R31423-26	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R31427, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31429-32	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R31433, 34	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31435	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31436	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31437	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31438	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31439	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31440	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31441	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31442-44	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31445	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31446	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31447-50	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R31451, 52	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31455	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R31457	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31460, 61	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31462	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31463	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31464-69	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R31470, 71	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31472-74	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31475	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31476	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31477	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R31478	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31501	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31502	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31503	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31504	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31505	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31519	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31523, 24	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R31525	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31526	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31528	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31530, 31	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R31542	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31546-48	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	3	
R31549, 50	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31551, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R31553, 54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31555, 56	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R31557-60	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R31561	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31562, 63	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31564, 65	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31566, 67	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31568-71	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R31601	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31603	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31604	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31605	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31606-13	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R31614	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31615, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31617-23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	7	
R31624	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31625	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31626-28	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31629	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31632-36	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R31701	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31702	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31703-05	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	3	
R31706	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31707	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31708	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31720	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31724	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31727, 28	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R31734	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31736	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31739-41	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	3	
R31742, 43	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31744	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31745	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31746	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31747, 48	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31749	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31750, 51	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31752, 53	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31754, 55	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31756	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31757, 58	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31801	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31802	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31803	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31804	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R31805, 06	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31807	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31808	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31809-11	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31812	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31813, 14	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31815	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31816, 17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31818	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31819	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31820	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31821-23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31824	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31901	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31902, 03	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31904, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31906	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31907	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31908	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31909-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31912, 13	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31914-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31917-21	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R31922, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31924	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31925-27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31928-35	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
R32001	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32002-05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32006	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32007	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32008	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32009	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32010, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32012-17	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R32018	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32019, 20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32022-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32025-32	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
R32033	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32101	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32102	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32103-08	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R32109	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32110, 11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R32201-05	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R32206	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32207	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32208, 09	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R32210	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32211	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32212-16	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R32217	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32218	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32219	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32220, 21	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R32222-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32226-30	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R32231	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32301-08	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R32309-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32313	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R32314	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32315-17	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32318, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R32320-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32323, 24	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R32325	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32326	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32327-32	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R32333	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32401	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32402	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32403	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32405	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R32503	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32505	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32506	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32601	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32602-05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32606, 07	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R32608	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32801-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32805, 06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32808, 09	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32810-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	15	
R32901-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32904, 05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32906	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32907	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32908, 09	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R32910-29	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	20	
R33001	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33002-04	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R33101, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33103	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33104, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33106-14	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	9	
R33115-18	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33119	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33120, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33122	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33123	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33124-26	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R33127, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33201	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33202	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33203, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33205, 06	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R33207, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33301	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33304	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33305	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33306	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R33307	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33308-15	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	8	
R33316	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33317-29	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	13	
R33330	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33331-45	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	15	
R33346	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33347-52	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	6	
R33401, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33403, 04	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33405, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33407	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33408, 09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33410	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33411	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33412-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	13	
R33501-03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R33504	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33505	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33506-08	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R33509, 10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33511-13	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R33514	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R33515, 16	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R33517	ERJ3RBD562	M. RESISTOR CH 1/16W 5. 6K	1	
R33518	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33519	ERJ6RBD151	M. RESISTOR CH 1/10W 150	1	
R33521	ERJ3RBD562	M. RESISTOR CH 1/16W 5. 6K	1	
R33522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33523-25	ERJ6RED750	M. RESISTOR CH 1/10W 75	3	
R33527	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R33529	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R33530	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R33531	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R33532	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R33533	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R33534	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R33535, 36	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33539	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33540	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R33541	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R33542, 43	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R33545	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33546, 47	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33548, 49	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33550-64	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	15	
R33565-67	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R33568	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R33569	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33571	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33572	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R33573	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33574	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33601, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33603	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33604, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33606	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33607, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33609	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33610, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33612	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33613	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33614-17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33618	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33619-27	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	9	
R33631-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R33635	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33636	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R33701	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33702	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R33703	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R33704	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33705	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R33706	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33707	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R33708	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33709-11	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R33712-14	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R33717-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33722, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33727	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33901	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33902, 03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33904	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33905, 06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33907-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R33910, 11	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R33912, 13	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33915, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33919-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33924, 25	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33926-33	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	8	
R34101, 02	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R34201-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	9	
R34216-19	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R34301-04	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R54001	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R54002	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R54003-06	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	4	
R54101, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54103, 04	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R54105	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54106	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54107	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R54108	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54109	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R54110	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54111	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54112	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54113, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54115, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R54117, 18	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54119	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54120	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54121	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R54122	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54123	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R54125	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54127, 28	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54131	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54133	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54135	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54136, 37	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54138	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R54140	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54141	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54145	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54146	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54147	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54148	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54149	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R54151, 52	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54153, 54	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R54155	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54156	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54157	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R54158	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54159	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R54160	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54161	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54162	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54163, 64	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54165, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54167, 68	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54169	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54170	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54171	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R54172	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54173	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R54175	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54177, 78	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54181	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54183	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54185	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54186, 87	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54188	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R54190	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54191	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54195	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54196	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54197	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54198	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54199	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R54201, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54203, 04	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R54205	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54206	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54207	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R54208	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54209	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R54210	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54211	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54212	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54213, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54215, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54217, 18	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54219	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54220	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54221	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R54222	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54223	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R54225	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54227, 28	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54231	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54233	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54235	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R54236, 37	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54238	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R54240	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54241	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54245	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54246	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54247	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54248	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54249	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R54251, 52	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54253, 54	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R54255	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54256	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54257	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R54258	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54259	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R54260	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54261	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54262	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54263, 64	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54265, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54267, 68	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54269	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54270	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54271	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R54272	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54273	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R54275	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54277, 78	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54281	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54283	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54285	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54286, 87	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54288	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R54290	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54291	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54295	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54296	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54297	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54298	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54299	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R54301, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R54303, 04	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54307	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54308	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54309	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54310	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54311	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54315, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54318	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54319	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54321	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54323	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54324	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54325	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54331	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54341-43	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R54345	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54352	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54354	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54355	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54356, 57	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54358	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54359	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54360	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R54361	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R54362, 63	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54365	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R54366	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54367	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54368	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54369, 70	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54371	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R54372	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54373	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R54374	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54375	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54376	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54377	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54378	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54379	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54380	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54381	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54382	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54383	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54384	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54385	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54386	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54387	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54388	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54389	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54390	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54391, 92	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54393, 94	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R54396	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54397-99	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R54401, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R54403, 04	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54407	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54408	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54409	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54410	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54411	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54415, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54418	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54419	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54421	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54423	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54424	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54425	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54431	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54441-43	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R54445	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54452	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54454	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54455	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54456, 57	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54458	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54459	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54460	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R54461	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R54462, 63	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54465	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R54466	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54467	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54468	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54469, 70	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54471	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R54472	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54473	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54474	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54475	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54476	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54477	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54478	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54479	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54480	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54481	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54482	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54483	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54484	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54485	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54486	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54487	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54488	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54489	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54490	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54491, 92	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54493, 94	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R54496	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R54497, 98	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R54501, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R54503, 04	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54507	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54508	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54509	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54510	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54511	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54518	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54519	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54520	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54521	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54523-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R54530, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54532	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54533, 34	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54535	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54536	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54537	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R54538	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R54539, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54542	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R54543	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54544	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54545	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54546	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R54547	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54548	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54549	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54550	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54551	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54552	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54553	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54554	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54555	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54556	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54557	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54558	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54559-62	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R54563	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54601, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R54603, 04	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54607	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54608	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54609	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54610	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54611	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54618	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54619	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54620	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54621	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54623-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R54630, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54632	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54633, 34	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54635	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54636	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54637	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R54638	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R54639, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54642	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R54643	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54644	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54645	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54646	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R54647	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54648	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54649	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54650	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54651	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54652	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54653	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54654	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54655	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54656	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E21	VEP83475A	AUDIO PROC&SDI P.C BOARD	1	(RTL)
C3001-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C3007	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3008-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C3101	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3102-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C3105	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3106, 07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3108	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3109-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C3201, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3203	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C3204	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3205	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3206	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3207	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3208	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C3209	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3210-15	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	6	
C3216	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3217	ECUM1H020CCN	C. CAPACITOR CH 50V 2P	1	
C3301-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C3305	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C3306, 07	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	2	
C3308	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3309	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C3310	EEVHP1E3R3	E. CAPACITOR CH 25V 3.3U	1	
C3311	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3312	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C3313	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C3314	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3315	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3316	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3317	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C3318	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3320	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3321	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3322, 23	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3324, 25	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
C3326	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3327	ECUX1C184KBN	C. CAPACITOR CH 16V 0.18U	1	
C3328	ECUM1E823KBN	C. CAPACITOR CH 25V 0.082U	1	
C3329	EEVHB1HR68	E. CAPACITOR CH 50V 0.68U	1	
C3330-32	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C3334-36	VCK0303K225	C. CAPACITOR 2.2U	3	
C3337	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3338	ECUX1E223KBV	C. CAPACITOR CH 25V 0.023U	1	
C3339	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C3340, 41	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3342	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C3343	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3344	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C3401-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C3405	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3406-13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C3501-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
C3601	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3602	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C3603	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3604	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3605	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3606	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3607	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3608	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C40001-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C40151-54	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C40251-60	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C40301-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C40351-56	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C40401-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C40501-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	12	
C40514	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40601	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C40602-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
C40609	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C40610	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C40611	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40612	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C40613	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40614	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C41001-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C41051-56	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C41101-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C41151-62	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	12	
C41164	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C41251	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C41252-58	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
C41259	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C41260	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C41261	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C41262	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C41263	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C41264	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C41351-55	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C41401-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C41501	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C41502-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C41601	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C41602-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C41701-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C41801-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C42001-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C42005, 06	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C42007	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C42010	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
FL3001	VLF0941C223	FILTER	1	
FL3201	VLF0941C223	FILTER	1	
FL3301	VLF1016A223	FILTER	1	
FL3601	VLF1016A223	FILTER	1	
FL41501	VLF0941C223	FILTER	1	
FL41601	VLF0941C223	FILTER	1	
FL42001	VLF1016A223	FILTER	1	
IC3001	74F244SJ	IC	1	
IC3002	TVHT244FT	IC	1	
IC3003	74F244SJ	IC	1	
IC3004, 05	74F821SC	IC	2	
IC3006, 07	TC7SH04FU	IC	2	
IC3008	TC7SH08FU	IC	1	
IC3101	TVHC74FT	IC	1	
IC3102	CG21503-131	IC	1	
IC3103	TC7SH04FU	IC	1	
IC3201	XC62FP5002P	IC	1	
IC3202	74F821SC	IC	1	
IC3203	GS9022-CPJ	IC	1	
IC3301	XC62FP5002P	IC	1	
IC3302	GS9005A-CPJ	IC	1	
IC3303	GS9010A-CKC	IC	1	
IC3304	GS9000BCPJ	IC	1	
IC3305	GS9007-CKA	IC	1	
IC3401	TC7SH08FU	IC	1	
IC3402	CG31633-2131	IC	1	
IC3403	TC7SH04FU	IC	1	
IC3404	TVHC74FT	IC	1	
IC3501, 02	SN74S1051NS	IC	2	
IC3503, 04	TVHT541FT	IC	2	
IC3505, 06	TC7SH32FU	IC	2	
IC3507	HD151015	IC	1	
IC3508	TVHC138FT	IC	1	
IC40001-09	TVHC244FT	IC	9	
IC40010, 11	TVHT244FT	IC	2	
IC40151	TVHC74FT	IC	1	
IC40152	TVHC08FT	IC	1	
IC40153	TC7SH04FU	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC40154	TC7SH32FU	IC	1	
IC40251-56	TVHC157FT	IC	6	
IC40257-60	TC7W241FU	IC	4	
IC40301	UPD65944G038	IC	1	
IC40302-04	TC7SH04FU	IC	3	
IC40305, 06	MN47V76SP	IC	2	
IC40351	UPD65845G068	IC	1	
IC40352, 53	M5256DVP10VL	IC	2	
IC40401	UPD65845G068	IC	1	
IC40402, 03	M5256DVP10VL	IC	2	
IC40502	KM68V1CLT7L	IC	1	
IC40601	XC62FP5002P	IC	1	
IC40602	MC74HC4046AF	IC	1	
IC40603	NJM2904V	IC	1	
IC40604, 05	TVHC244FT	IC	2	
IC40606	TVHC74FT	IC	1	
IC40607	TVHC244FT	IC	1	
IC40608	TLCX04F	IC	1	
IC41001	UPD65944G038	IC	1	
IC41002-04	TC7SH04FU	IC	3	
IC41005, 06	MN47V76SP	IC	2	
IC41051	UPD65845G068	IC	1	
IC41052, 53	M5256DVP10VL	IC	2	
IC41101	UPD65845G068	IC	1	
IC41102, 03	M5256DVP10VL	IC	2	
IC41152	KM68V1CLT7L	IC	1	
IC41251	XC62FP5002P	IC	1	
IC41252	MC74HC4046AF	IC	1	
IC41253	TVHC244FT	IC	1	
IC41254	NJM2904V	IC	1	
IC41255, 56	TVHC244FT	IC	2	
IC41257	TVHC74FT	IC	1	
IC41258	TLCX04F	IC	1	
IC41351	UPD65840GY08	IC	1	
IC41352	MS5117805D6J	IC	1	
IC41401	TVHC157FT	IC	1	
IC41402	MB87D136APFV	IC	1	
IC41501, 02	TVHT244FT	IC	2	
IC41503	TVHC74FT	IC	1	
IC41504	TC4W53FU	IC	1	
IC41505	MB621926	IC	1	
IC41506, 07	TVHC164FT	IC	2	
IC41508	TC7SH04FU	IC	1	
IC41509	MSM514800C7J	IC	1	
IC41601, 02	TVHT244FT	IC	2	
IC41603	TVHC74FT	IC	1	
IC41604	TC4W53FU	IC	1	
IC41605	MB621926	IC	1	
IC41606, 07	TVHC164FT	IC	2	
IC41608	TC7SH04FU	IC	1	
IC41609	MSM514800C7J	IC	1	
IC41701, 02	SN74S1051NS	IC	2	
IC41703, 04	TVHC541FT	IC	2	
IC41705	TC7SH08FU	IC	1	
IC41706	TVHC245FT	IC	1	
IC41707	TVHC138FT	IC	1	
IC41708	T163G26-1019	IC	1	
IC41801, 02	SN74S1051NS	IC	2	
IC41803, 04	TVHC541FT	IC	2	
IC41805	TC7SH08FU	IC	1	
IC41806	TVHC245FT	IC	1	
IC41807	TVHC138FT	IC	1	
IC41808	T163G26-1019	IC	1	
IC42201	UPD65949G076	IC	1	
IC42301	UPD65949G076	IC	1	
J3201	VJP3461	CONNECTOR (MALE)	1	
J3301, 02	VJP3461	CONNECTOR (MALE)	2	
L3101	VLP0364	CHIP INDUCTOR	1	
L3201	VLQ0319K100	COIL 10UH	1	
L3301	VLQ0426J015	COIL 15UH	1	
L3302, 03	VLQ0319K100	COIL 10UH	2	
L3401	VLP0364	CHIP INDUCTOR	1	
L3601, 02	VLP0133	COIL	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3603	VLP0364	CHIP INDUCTOR	1	
L42001-03	VLP0133	COIL	3	
P3701	VJS4313D080	CONNECTOR (FEMALE)	1	
P3702	VJS3406D010	CONNECTOR (FEMALE)	1	
P42001, 02	VJS4313D080	CONNECTOR (FEMALE)	2	
P42003	VJS3406D012	CONNECTOR (FEMALE)	1	
P42004	VJS4313D080	CONNECTOR (FEMALE)	1	
R3001	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R3003	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3004	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3005	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3006	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R3007-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R3013, 14	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R3015	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3016	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3017, 18	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R3019-27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	9	
R3028	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3029-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R3035-41	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	7	
R3042-44	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R3045, 46	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3048-58	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	11	
R3059	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3060	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3061-64	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R3101-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	12	
R3113-15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R3116, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3118, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3120-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R3125, 26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3127-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R3132-35	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R3136	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3138, 39	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3201	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3202-11	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	10	
R3212	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R3213	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3216	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3217	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3218	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3219	ERJ6RED105	M. RESISTOR CH 1/10W 1M	1	
R3220	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R3221, 22	ERJ6RBD151	M. RESISTOR CH 1/10W 150	2	
R3223	ERJ6RED680	M. RESISTOR CH 1/10W 68	1	
R3301, 02	ERJ6RED750	M. RESISTOR CH 1/10W 75	2	
R3303	ERJ6RBD121	M. RESISTOR CH 1/10W 120	1	
R3305	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3306, 07	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	2	
R3308	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R3310	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3313	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	1	
R3314	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3316	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3318-21	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	4	
R3322	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R3323-26	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R3327	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3328	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3329	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3330	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3332	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R3333	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	
R3334-43	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	10	
R3344	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	
R3345-47	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	3	
R3348	ERJ6RED680	M. RESISTOR CH 1/10W 68	1	
R3401	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3402-07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R3409, 10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3411-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R3417	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3418	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3419	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3420, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3422-26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R3427-29	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R3501-06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R3507	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3508	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3509-12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	4	
R3513-16	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R3608-11	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	4	
R40001-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40004-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
R40009, 10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40011-50	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	40	
R40051-54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R40055-57	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R40058, 59	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40060, 61	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R40062, 63	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40064-93	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	30	
R40096	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R40098-03	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R40104	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40105	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R40106, 07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40108-10	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R40111-16	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R40119	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40151, 52	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R40153, 54	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R40155, 56	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40157	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R40251-53	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40254-59	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	6	
R40260, 61	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40262-79	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	18	
R40280-84	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R40285-88	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R40289	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40301-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40306	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40307, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40309, 10	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R40311-15	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R40316-32	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2. 7K	17	
R40351, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40354, 55	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40357	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R40358	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40360	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40361	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40362	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40363	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40364	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40365	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40366	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40401	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R40402, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40405, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40408	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R40409	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40411	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40412	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40413	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40414	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40416	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40417	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40454-57	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R40517	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40526	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40527	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40528	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40601, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40604-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R40609	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40610	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R40611, 12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40613	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40614-17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R40618	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R40620, 21	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40622-31	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
R40632	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R40633-42	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
R40643	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41001, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41006	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41007, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41009, 10	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R41011-15	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R41016-32	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2. 7K	17	
R41051, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41054, 55	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41057	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R41058	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41060	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41061	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41062	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41063	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41064	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41065	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41066	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41101	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R41102, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41105, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41108	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R41109	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41111	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41112	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41113	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41114	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41115	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41116	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41117	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41165	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41169	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41179	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41180	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41251, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41254-56	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R41257	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R41258, 59	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41260	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41261	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R41262, 63	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41264-66	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R41267-71	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R41272	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41273	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R41274, 75	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R41278, 79	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R41280-87	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R41288	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R41289-96	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R41297	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41351	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41352-64	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	13	
R41365	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41366-75	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	10	
R41376	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41401	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R41402-05	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R41409	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41411-17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R41419	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41421-23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R41425	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41427	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41428-30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R41431_32	ERJ3GEGI02	M. RESISTOR CH 1/16W 1K	2	
R41433-35	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R41501_02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R41504	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41508	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41509-12	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	4	
R41513-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R41518	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41520	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41601_02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R41604	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41608-11	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	4	
R41612-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R41618	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41620	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41701_02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R41703-06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R41707-11	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R41712-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R41720	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41801_02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R41803_04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41805-11	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	7	
R41812_13	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41817-21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R42201_02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R42205-07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R42209_10	ERJ3GEGI02	M. RESISTOR CH 1/16W 1K	2	
R42214-18	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R42221	ERJ3GEGI02	M. RESISTOR CH 1/16W 1K	1	
R42231	ERJ3GEGI02	M. RESISTOR CH 1/16W 1K	1	
R42303	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R42305-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R42312	ERJ3GEGI02	M. RESISTOR CH 1/16W 1K	1	
R42313	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R42316	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R42317	ERJ3GEGI02	M. RESISTOR CH 1/16W 1K	1	
R42318	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R42323	ERJ3GEGI02	M. RESISTOR CH 1/16W 1K	1	
R42332-34	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R42336	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R42337	ERJ3GEGI02	M. RESISTOR CH 1/16W 1K	1	
TG40001	EYF6CU	TEST POINT	1	
TG40501	EYF6CU	TEST POINT	1	
TG40601	EYF6CU	TEST POINT	1	
TG41151	EYF6CU	TEST POINT	1	
TG41251	EYF6CU	TEST POINT	1	
TG41701	EYF6CU	TEST POINT	1	
TG41801	EYF6CU	TEST POINT	1	
TG42201	EYF6CU	TEST POINT	1	
TG42301	EYF6CU	TEST POINT	1	
TP3101-03	EYF6CU	TEST POINT	3	
TP3201-03	EYF6CU	TEST POINT	3	
TP3301_02	EYF6CU	TEST POINT	2	
TP3401-13	EYF6CU	TEST POINT	13	
TP40601_02	EYF6CU	TEST POINT	2	
TP41251_52	EYF6CU	TEST POINT	2	
X40601	VSX1088	CRYSTAL OSCILLATOR	1	
X41251	VSX1088	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VJF0309	HOLDER	1	
	VMX2233	PCB SPACER	1	
	VMP6221	A/V P. C. B. HOLDER ANGLE	1	
	XTV3+8F	SCREW	6	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ E22	VEP83482B	SYNC GENE P. C. BOARD	1	(RTL)
C3001	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3002	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3003	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3004, 05	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C3006, 07	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C3008	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3009	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3010	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3011	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3012	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3101	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C3102	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3103, 04	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	2	
C3105	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3106-10	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	5	
C3112	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3113-16	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C3117	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3118	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3201-03	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C3204, 05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3206	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C3207	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3208	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C3209	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C3210	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3211	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3212, 13	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C3214, 15	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C3216, 17	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C3218	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C3219-22	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	4	
C3223	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C3224	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3225	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3226, 27	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C3228	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3229	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3230	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3231	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C3232	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3233, 34	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C3235	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3236	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3237	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3238	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C3239-41	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	3	
C3242	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3243	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C3244	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C3245, 46	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C3247	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3248, 49	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C3252	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3254	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3301	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C3302	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3303	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3304	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3305	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3306	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3307	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3308, 09	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	2	
C3310	ECGE1VAN2R2	E. CAPACITOR CH 35V 2.2U	1	
C3312	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3313	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C3314	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	
C3315	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C3316	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3317	ECUX1E104ZVF	C. CAPACITOR CH 25V 0.1U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3318, 19	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3320	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3321, 22	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3323	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3324	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3325-27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3328	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C3329, 30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3401	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3402, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3404-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7	
C3411	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3412, 13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3414	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3415	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3416	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3417	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3418	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3419	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C3420	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C3421-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3425	EEVHB1C220	E. CAPACITOR 16V 22U	1	
D3201	MA142WK	DIODE	1	
D3202	M1MA152K	DIODE	1	
D3301, 02	MA142K	DIODE	2	
D3303, 04	MA335-R	DIODE	2	
D3401	M1MA152K	DIODE	1	
FL3301, 02	VLF1016A223	FILTER	2	
IC3101	TVHC244FT	IC	1	
IC3102, 03	TVHC221FT	IC	2	
IC3104	UPD65650J203	IC	1	
IC3105	TVHC244FT	IC	1	
IC3106	TC7SH04FU	IC	1	
IC3201	AN91A12S	IC	1	
IC3202	THC4053FT	IC	1	
IC3203	NE521D	IC	1	
IC3204	MC74HC04AF	IC	1	
IC3205	MC74HC125AF	IC	1	
IC3206, 07	TVHC221FT	IC	2	
IC3208	TVHC157FT	IC	1	
IC3209	MC74HC04AF	IC	1	
IC3210	TVHC221FT	IC	1	
IC3211	NJM082BV	IC	1	
IC3212	TVHC221FT	IC	1	
IC3213	TVHC157FT	IC	1	
IC3214	TC7SH00FU	IC	1	
IC3301	MC14053BDT	IC	1	
IC3302	TC7SH08FU	IC	1	
IC3303	NJM082BV	IC	1	
IC3304	NE521D	IC	1	
IC3305	NJM78L09UA	IC	1	
IC3306	TC7SH00FU	IC	1	
IC3307	TVHC244FT	IC	1	
IC3401-03	TVHC574FT	IC	3	
IC3404	MC14053BDT	IC	1	
IC3405	DAC10GS	IC	1	
IC3406, 07	NJM082BV	IC	2	
IC3408	TVHC74FT	IC	1	
IC3409	TVHC244FT	IC	1	
L3101	VLQ0319K470	COIL 47UH	1	
L3201	VLQ0319K221	COIL 220UH	1	
L3202	VLQ0163J390	COIL 39UH	1	
L3203	VLQ0163J680	COIL 68UH	1	
L3204	VLQ0319K101	COIL 100UH	1	
L3205-08	VLQ0319K470	COIL 47UH	4	
L3301	VLQ0319K470	COIL 47UH	1	
L3302	VLQ0163J221	COIL 220UH	1	
L3303	VLQ0319K470	COIL 47UH	1	
L3401-03	VLQ0319K470	COIL 47UH	3	
P3002	VJS3791D024	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P3003	VJS3791B020	CONNECTOR (FEMALE)	1	
P3004	VJP3950A003	CONNECTOR (MALE)	1	
Q3301	2SB709A-R	TRANSISTOR	1	
Q3302-05	2SK608-R	TRANSISTOR	4	
R3001	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3101	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3102	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3103, 04	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3105, 06	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R3108	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R3109	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3110	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R3111	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3112, 13	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	2	
R3114	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R3115-19	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	5	
R3124-26	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R3130-32	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R3133	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3134	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3135-37	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R3138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3139-43	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R3144	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3201, 02	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3203	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R3204	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R3205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3206	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3207	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R3208-10	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	3	
R3211, 12	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3213	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3214	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3215	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R3216	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R3217, 18	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R3220	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3221	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R3222	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3223	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3224	ERJ3GEYGI52	M. RESISTOR CH 1/16W 1.5K	1	
R3225	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3226	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3227	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3228	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R3229, 30	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3231	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3232	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3233	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3234	ERJ3GEYGI02	M. RESISTOR CH 1/16W 1K	1	
R3235	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R3236-39	ERJ3GEYGI02	M. RESISTOR CH 1/16W 1K	4	
R3240	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R3241	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3242	ERJ3GEYGI02	M. RESISTOR CH 1/16W 1K	1	
R3243	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3301	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3302	ERJ3GEYGI52	M. RESISTOR CH 1/16W 1.5K	1	
R3303	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R3304	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3305	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3306	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R3307	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R3308	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3309	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3310	ERJ3GEYGI02	M. RESISTOR CH 1/16W 1K	1	
R3311	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3312	ERJ3GEYGI02	M. RESISTOR CH 1/16W 1K	1	
R3313	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3315	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3316	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3317	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3318	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R3319	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3320	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3321	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3322	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R3323	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3325, 26	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R3327	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3328, 29	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R3330	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3331, 32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3333	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3334	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3335-37	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R3401	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3402	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3403	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3404	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3405	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3406	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3407-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R3411	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R3412	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R3413	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3414, 15	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R3416, 17	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R3418	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3419	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3420	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3421	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3422	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3423, 24	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R3425-27	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
TG3101	EYF6CU	TEST POINT	1	
TG3201	EYF6CU	TEST POINT	1	
TG3301	EYF6CU	TEST POINT	1	
TP3101-03	EYF6CU	TEST POINT	3	
TP3201-04	EYF6CU	TEST POINT	4	
TP3301-04	EYF6CU	TEST POINT	4	
VC3301, 02	VCV0050	TRIMMER	2	
VR3101, 02	EVM7JGA00B53	V. RESISTOR 5K	2	
VR3201	EVM7JGA00B54	V. RESISTOR 50K	1	
VR3202	EVM7JGA00B14	V. RESISTOR 10K	1	
VR3203	EVM7JGA00B54	V. RESISTOR 50K	1	
VR3204	EVM7JGA00B14	V. RESISTOR 10K	1	
VR3205	EVM7JGA00B53	V. RESISTOR 5K	1	
VR3401, 02	EVM7JGA00B53	V. RESISTOR 5K	2	
X3201	VSX0567A	CRYSTAL OSCILLATOR	1	
X3301	VSX0081	CRYSTAL OSCILLATOR	1	
X3302	VSX0316	CRYSTAL OSCILLATOR	1	
X3401	VSX0788	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VMP6227	P. C. BOARD INTERLOCK ANGLE	1	
	XYN3+K8	SCREW	1	
■ E23	VEP84336B	AUDIO VIDEO P. C. BOARD	1 (RTL)	
C1001, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3401	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3402	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3403	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3404	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C3405, 06	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C3407-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3410, 11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3412-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3415	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C3416	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3417	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3418	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3419	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3420	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3421	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3422	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C3423, 24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3425	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3426	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C3427	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C3428	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3429	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3430	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C3431	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3432	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3433	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3436, 37	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3438	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3439	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3440	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3444	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C3445	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3446	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3447-50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3801, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3803	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3804-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3808, 09	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3810	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C3811-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3815	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C3816, 17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3818, 19	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
C3820	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3821	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C3822	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C3823	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3824	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C3825	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3826	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C3827	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3829	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3830, 31	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	2	
C3832-34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3835	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3836	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3837	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3901-03	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	3	
C3904, 05	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3906, 07	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C3908-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3912-14	ECST1CX106Z	T. CAPACITOR CH 16V 10U	3	
C3915	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3916, 17	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C3918, 19	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	2	
C3920, 21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7003	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7004	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7005	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7006	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7007	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C7008	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7009	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C7010	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7011	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7012, 13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7014	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7015	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7016, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7018	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7020	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7021	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7022	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7023, 24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7025-28	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C7029	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7030	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7031	ECEV0JV101Q	E. CAPACITOR CH6. 3V 100U	1	
C7032	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C7033	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7034	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7035	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7036	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7037	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7038	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7040	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7041	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7042, 43	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7044	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7045	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7046	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C7047	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C7048	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C7049	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7050	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7051	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7052	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C7053	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C7054	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C7055	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C7056	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7057, 58	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7059	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C7060	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7061	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C7062	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7063	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C7064, 65	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7066	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7067	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7068, 69	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C7205	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7208	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7233	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7235	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C7301	ECUM1C105ZF	C. CAPACITOR CH 16V 1U	1	
C7302	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C7303, 04	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	2	
C7305	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7306-13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C7316, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7318, 19	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C7320, 21	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C7322, 23	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C7324, 25	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
C7328, 29	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7330	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7331, 32	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C7333, 34	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C7401	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7402	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7403	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7404	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C7405	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7406	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7407	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7408, 09	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C7410, 11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7412-14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C7415, 16	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C7417, 18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7419	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7420	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7421	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C7422	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7423	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7424	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7425	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7426	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7427	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C7428	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7429	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7430	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C7431	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7432	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7433	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7434	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C7436	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7437	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C7438	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C7439	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7440	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7441	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7442	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7446	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7447-50	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C7601	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7602	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C7603	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C7605	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7606, 07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7609, 10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7612	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7613	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7614	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7615	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7616	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7617	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7618	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7619, 20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7621	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7622, 23	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7624	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7625	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7701	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7702, 03	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	2	
C7706, 07	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	2	
C7708	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7710	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7712	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C7713, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7716	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7718-20	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C7721	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C7722	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7723	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C7724, 25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7726, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7728, 29	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	2	
C7730, 31	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7732, 33	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7734	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7735-39	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C7801, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7803	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7804-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C7808, 09	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C7810	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C7811-14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C7815	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C7816, 17	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C7818, 19	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
C7820	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7821	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C7822	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C7823	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C7824	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C7825	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7826	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C7827	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7828	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C7829	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7830, 31	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C7832, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40001, 02	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C40003, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40005	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40006-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C40011	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40012	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40013	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40101, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40103	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40104	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40105	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40106	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40107-10	ECEVIEV330Q	E. CAPACITOR CH 25V 33U	4	
C40111-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C40114, 15	ECUIC472JB	P. CAPACITOR 16V 4700P	2	
C40116, 17	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C40118, 19	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	2	
C40120, 21	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	2	
C40122, 23	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C40124	ECEVICN100Q	E. CAPACITOR CH 16V 10U	1	
C40125, 26	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40127	ECEVICN100Q	E. CAPACITOR CH 16V 10U	1	
C40128	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C40129, 30	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C40131, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40133	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C40134, 35	ECEVICV220Q	E. CAPACITOR CH 16V 22U	2	
C40136, 37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40138, 39	ECEVICV100Q	E. CAPACITOR CH 16V 10U	2	
C40140-42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C40143	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40144	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40145	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40146	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C40147, 48	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40149, 50	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
C40151	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C40152-59	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C40160, 61	ECEVICN100Q	E. CAPACITOR CH 16V 10U	2	
C40162	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40163-67	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C40168, 69	ECEVICV470Q	E. CAPACITOR CH 16V 47U	2	
C40171	ECEVIEV4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C40172	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40173-76	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40178, 79	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40180, 81	ECEVICV470Q	E. CAPACITOR CH 16V 47U	2	
C40182	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40183	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40184	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40186-89	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40190	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40201, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40203	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C40204, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40206	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40208-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C40211	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40212	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40213, 14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40215	ECEVOJV101Q	E. CAPACITOR CH6. 3V 100U	1	
C40217, 18	ECEVICN100Q	E. CAPACITOR CH 16V 10U	2	
C40219, 20	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C40221-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40225, 26	ECUIC472JB	P. CAPACITOR 16V 4700P	2	
C40227, 28	ECEVICN100Q	E. CAPACITOR CH 16V 10U	2	
C40229-32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40301	ECEVICV220Q	E. CAPACITOR CH 16V 22U	1	
C40304, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40308	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40309, 10	ECEVICV470Q	E. CAPACITOR CH 16V 47U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C40319-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C40325, 26	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C40402	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40403	ECST1ED226Z	T. CAPACITOR CH 25V 22U	1	
C40404	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40405	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40406	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C40407	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C40408	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C40409	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40410	ECEVOJN470Q	E. CAPACITOR CH6. 3V 47U	1	
C40411	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C40412	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C40413, 14	ECST1682JZ	P. CAPACITOR 100V 6800P	2	
C40415	ECST1ED226Z	T. CAPACITOR CH 25V 22U	1	
C40416	ECUM1H273KBN	C. CAPACITOR CH 50V 0.027U	1	
C40417	ECUIC822JB	P. CAPACITOR 16V 8200P	1	
C40418	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40419	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C40420	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40421	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C40422	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40423	ECEVOJN100Q	E. CAPACITOR CH6. 3V 10U	1	
C40424	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40425	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C40426, 27	ECST1682JZ	P. CAPACITOR 100V 6800P	2	
C40428	VCC0030	C. CAPACITOR	1	
C40429	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C40430, 31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40432	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40433, 34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40435	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40501	ECEVIN4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C40502, 03	ECUIC822JB	P. CAPACITOR 16V 8200P	2	
C40504, 05	ECUIC103JB5	P. CAPACITOR 16V 0.01U	2	
C40506, 07	ECUIC1H182JB5	P. CAPACITOR 50V 1800P	2	
C40508, 09	ECUIC103JB5	P. CAPACITOR 16V 0.01U	2	
C40510-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40514	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C40515, 16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40518	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C40519	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C40520	ECUIC1H102JB	P. CAPACITOR 50V 1000P	1	
C40521	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C40522-27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C40528-30	ECUIC104J	P. CAPACITOR 16V 0.1U	3	
C40531, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40533	ECUIC104J	P. CAPACITOR 16V 0.1U	1	
C40534	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C40535	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C40536	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40537	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
C40538	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C40539	ECEVIN4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C40541, 42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40543	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40544	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40545	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C40546	ECEVICV220Q	E. CAPACITOR CH 16V 22U	1	
C40547	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40548	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C40549	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40550	ECST1VY104Z	T. CAPACITOR CH 35V 0.1U	1	
C40551	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C45012	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45013	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45101, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45103	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C45104	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45105	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C45106	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45107-10	ECEVIEV330Q	E. CAPACITOR CH 25V 33U	4	
C45111	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45112	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C45113	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C45114, 15	ECU1C472JB	P. CAPACITOR 16V 4700P	2	
C45116, 17	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C45118, 19	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	2	
C45120, 21	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	2	
C45122, 23	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C45124	ECEVCN100Q	E. CAPACITOR CH 16V 10U	1	
C45125, 26	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45127	ECEVCN100Q	E. CAPACITOR CH 16V 10U	1	
C45128	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C45129, 30	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C45131, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45133	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C45134, 35	ECEVCV220Q	E. CAPACITOR CH 16V 22U	2	
C45136, 37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45138, 39	ECEVCV100Q	E. CAPACITOR CH 16V 10U	2	
C45140, 41	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45143	ECEVCV100Q	E. CAPACITOR CH 16V 10U	1	
C45144	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45145	ECEVCV100Q	E. CAPACITOR CH 16V 10U	1	
C45146	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C45147, 48	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45149, 50	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
C45151	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C45152-59	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C45160, 61	ECEVCN100Q	E. CAPACITOR CH 16V 10U	2	
C45162	ECEVCV470Q	E. CAPACITOR CH 16V 47U	1	
C45163-67	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C45168, 69	ECEVCV470Q	E. CAPACITOR CH 16V 47U	2	
C45171	ECEVEV4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C45172	ECEVCV100Q	E. CAPACITOR CH 16V 10U	1	
C45173-76	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45178, 79	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45180, 81	ECEVCV470Q	E. CAPACITOR CH 16V 47U	2	
C45182	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45183	ECEVCV100Q	E. CAPACITOR CH 16V 10U	1	
C45184	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45188	ECEVCV470Q	E. CAPACITOR CH 16V 47U	1	
C45190, 91	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45195-98	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45201, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45203	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C45204, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45206	ECEVCV100Q	E. CAPACITOR CH 16V 10U	1	
C45208-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C45211	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45212	ECEVCV100Q	E. CAPACITOR CH 16V 10U	1	
C45213	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45215	ECEVOJV101Q	E. CAPACITOR CH6. 3V 100U	1	
C45217, 18	ECEVCN100Q	E. CAPACITOR CH 16V 10U	2	
C45219, 20	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C45221-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45225, 26	ECU1C472JB	P. CAPACITOR 16V 4700P	2	
C45227, 28	ECEVCN100Q	E. CAPACITOR CH 16V 10U	2	
C45229-32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45304, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45308	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45319-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C45325, 26	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C45402	ECEVCV470Q	E. CAPACITOR CH 16V 47U	1	
C45403	ECST1ED226Z	T. CAPACITOR CH 25V 22U	1	
C45404	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45405	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45406	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C45407	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C45408	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C45409	ECEVCV470Q	E. CAPACITOR CH 16V 47U	1	
C45410	ECEVOJN470Q	E. CAPACITOR CH6. 3V 47U	1	
C45411	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C45412	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C45413, 14	ECHS1682JZ	P. CAPACITOR 100V 6800P	2	
C45415	ECST1ED226Z	T. CAPACITOR CH 25V 22U	1	
C45416	ECUM1H273KBN	C. CAPACITOR CH 50V 0.027U	1	
C45417	ECU1C822JB	P. CAPACITOR 16V 8200P	1	
C45418	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45419	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C45420	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45421	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C45422	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45423	ECEVOJN100Q	E. CAPACITOR CH6. 3V 10U	1	
C45424	ECEVCV470Q	E. CAPACITOR CH 16V 47U	1	
C45425	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C45426, 27	ECHS1682JZ	P. CAPACITOR 100V 6800P	2	
C45428	VCC0030	C. CAPACITOR	1	
C45429	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C45430, 31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45432	ECEVCV470Q	E. CAPACITOR CH 16V 47U	1	
C45433, 34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45435	ECEVCV470Q	E. CAPACITOR CH 16V 47U	1	
C45501	ECEVCN4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C45502, 03	ECU1C822JB	P. CAPACITOR 16V 8200P	2	
C45504, 05	ECU1C103JB5	P. CAPACITOR 16V 0.01U	2	
C45506, 07	ECU1H182JB5	P. CAPACITOR 50V 1800P	2	
C45508, 09	ECU1C103JB5	P. CAPACITOR 16V 0.01U	2	
C45510-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45514	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C45515, 16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45518	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C45519	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C45520	ECU1H102JB	P. CAPACITOR 50V 1000P	1	
C45521	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C45522-27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C45528-30	ECU1C104J	P. CAPACITOR 16V 0.1U	3	
C45531, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45533	ECU1C104J	P. CAPACITOR 16V 0.1U	1	
C45534	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C45535	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C45536	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45537	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
C45538	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C45539	ECEVCN4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C45541, 42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45543	ECEVCV100Q	E. CAPACITOR CH 16V 10U	1	
C45544	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45545	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C45546	ECEVCV220Q	E. CAPACITOR CH 16V 22U	1	
C45547	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45548	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C45549	ECEVCV100Q	E. CAPACITOR CH 16V 10U	1	
C45550	ECST1VY104Z	T. CAPACITOR CH 35V 0.1U	1	
C45551	ECEVCV100Q	E. CAPACITOR CH 16V 10U	1	
D3401	MA142WK	DIODE	1	
D3801	MA142WK	DIODE	1	
D3802	MA335-R	DIODE	1	
D7401	MA142WK	DIODE	1	
D7701-04	MA142WK	DIODE	4	
D7801	MA142WK	DIODE	1	
D7802	MA335-R	DIODE	1	
D7803	MA142WK	DIODE	1	
D40001-05	MA128	DIODE	5	
D40101, 02	MA142WK	DIODE	2	
D40103, 04	MA142WA	DIODE	2	
D40105-08	MA716	DIODE	4	
D40301	MA147	DIODE	1	
D40302, 03	MA142WK	DIODE	2	
D40401, 02	MA142WK	DIODE	2	
D40403	MA716	DIODE	1	
D45101, 02	MA142WK	DIODE	2	
D45103, 04	MA142WA	DIODE	2	
D45105-08	MA716	DIODE	4	
D45401, 02	MA142WK	DIODE	2	
D45403	MA716	DIODE	1	
FL1001, 02	VLF0941C223	FILTER	2	
FL3401, 02	VLF0941C223	FILTER	2	
FL3801, 02	VLF0941C223	FILTER	2	
FL3803	VLQ0415	COIL	1	
FL7001	VLF1015	FILTER	1	
FL7201	VLF1179	FILTER	1	
FL7301, 02	VLF1476	FILTER	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL7401, 02	VLFO941C223	FILTER	2	
FL7801, 02	VLFO941C223	FILTER	2	
FL7803	VLQ0415	COIL	1	
FL40001, 02	VLFO941C223	FILTER	2	
FL40401	EIR7QF012B	TRANSFORMER	1	
FL40501	VLFO1069	FILTER	1	
FL45401	EIR7QF012B	TRANSFORMER	1	
FL45501	VLFO1069	FILTER	1	
IC3401	MM74HC221AM	IC	1	
IC3402	TC7W04FU	IC	1	
IC3403	DM74LS221SJ	IC	1	
IC3404	TC7W74FU	IC	1	
IC3405	UPD65013BC16	IC	1	
IC3406	TC7S00FU	IC	1	
IC3407	NJM319V	IC	1	
IC3408	TC7W04FU	IC	1	
IC3409	NJM082BV	IC	1	
IC3410	MC14053BDT	IC	1	
IC3411	NJM064V	IC	1	
IC3412	XC62AP5002P	IC	1	
IC3801	TVHC00FT	IC	1	
IC3802	NJM082BV	IC	1	
IC3803, 04	DM74LS221SJ	IC	2	
IC3805	TC7S14F	IC	1	
IC3806	TVHC244FT	IC	1	
IC3807	TC7S32FU	IC	1	
IC3808	TC4W53FU	IC	1	
IC3809	TVHC74FT	IC	1	
IC3810	XC62DN5002P	IC	1	
IC3811	AN77L05M	IC	1	
IC3901	XC62AP3002P	IC	1	
IC3902, 03	UPD6456T611Y	IC	2	
IC3904	M62370GP	IC	1	
IC7001	TC7W125FU	IC	1	
IC7003	CXD2024AQ	IC	1	
IC7004	AD817AR	IC	1	
IC7005	AN77L05M	IC	1	
IC7006	CXD1176Q	IC	1	
IC7007	XC62DN5002P	IC	1	
IC7008	TC7W04FU	IC	1	
IC7009, 10	AN77L05M	IC	2	
IC7011	TC7S00FU	IC	1	
IC7206	MC14053BDT	IC	1	
IC7301	AN77L08M	IC	1	
IC7302, 03	NJM1496V	IC	2	
IC7304, 05	NJM2534V	IC	2	
IC7401, 02	TC7W04FU	IC	2	
IC7403	DM74LS221SJ	IC	1	
IC7404	MM74HC221AM	IC	1	
IC7405	TC7W74FU	IC	1	
IC7406	XC62AP5002P	IC	1	
IC7407	UPD65013BC16	IC	1	
IC7408	TC7S00FU	IC	1	
IC7409	NJM319V	IC	1	
IC7410	NJM082BV	IC	1	
IC7411	NJM064V	IC	1	
IC7412	MC14053BDT	IC	1	
IC7601	LT1228CS8	IC	1	
IC7603	AN77L05M	IC	1	
IC7604	CXD1176Q	IC	1	
IC7605	TVHC541FT	IC	1	
IC7606	NJM4556AM	IC	1	
IC7701	TC7S04FU	IC	1	
IC7702	TC7S32FU	IC	1	
IC7703, 04	LT1228CS8	IC	2	
IC7705, 06	AN77L05M	IC	2	
IC7707, 08	MB40568PF	IC	2	
IC7709, 10	TVHC541FT	IC	2	
IC7711, 12	NJM4556AM	IC	2	
IC7801	TVHC00FT	IC	1	
IC7802	TVHC74FT	IC	1	
IC7803, 04	DM74LS221SJ	IC	2	
IC7805	TC7S14F	IC	1	
IC7806	TVHC244FT	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC7807	TC7S32FU	IC	1	
IC7808	TC4W53FU	IC	1	
IC7809	NJM082BV	IC	1	
IC40001	LVX3245QSC	IC	1	
IC40002, 03	TVHT541FT	IC	2	
IC40004	TVHC139FT	IC	1	
IC40005	TE7751	IC	1	
IC40101	UPC5204GC041	IC	1	
IC40102	TA75W558FU	IC	1	
IC40103	AD7945BR	IC	1	
IC40104	TA75W558FU	IC	1	
IC40105	AD7945BR	IC	1	
IC40106	AK5340VS	IC	1	
IC40107	TVHT541FT	IC	1	
IC40108	AN77L05M	IC	1	
IC40109, 10	NJM78L09UA	IC	2	
IC40111	AN78L07M	IC	1	
IC40112	NJM79L09UA	IC	1	
IC40113	AN79L07M	IC	1	
IC40114, 15	TA75W558FU	IC	2	
IC40116	MC14053BDT	IC	1	
IC40117, 18	UPD4052BG	IC	2	
IC40119	MC14053BDT	IC	1	
IC40120	NJM79L09UA	IC	1	
IC40201	AN77L05M	IC	1	
IC40202	AK4320VM	IC	1	
IC40203	TVHT541FT	IC	1	
IC40204, 05	TA75W558FU	IC	2	
IC40206, 07	TC4W53FU	IC	2	
IC40301	TA75W558FU	IC	1	
IC40303	UPD4052BG	IC	1	
IC40305	TA75W558FU	IC	1	
IC40307	UPD4052BG	IC	1	
IC40310	AN77L05M	IC	1	
IC40311	XC62DN5002M	IC	1	
IC40401	TA75W558FU	IC	1	
IC40402	NJM78L05UA	IC	1	
IC40403	NJM79L05UA	IC	1	
IC40501, 02	TA75W558FU	IC	2	
IC40503	MC14053BDT	IC	1	
IC40504-06	TA75W558FU	IC	3	
IC40507	TC4W53FU	IC	1	
IC40508	CXA1552M	IC	1	
IC40509	UPD4052BG	IC	1	
IC40510	TA75W558FU	IC	1	
IC45005	TE7751	IC	1	
IC45101	UPC5204GC041	IC	1	
IC45102	TA75W558FU	IC	1	
IC45103	AD7945BR	IC	1	
IC45104	TA75W558FU	IC	1	
IC45105	AD7945BR	IC	1	
IC45106	AK5340VS	IC	1	
IC45107	TVHT541FT	IC	1	
IC45108	AN77L05M	IC	1	
IC45109, 10	NJM78L09UA	IC	2	
IC45111	AN78L07M	IC	1	
IC45112	NJM79L09UA	IC	1	
IC45113	AN79L07M	IC	1	
IC45114, 15	TA75W558FU	IC	2	
IC45116	TC4W53FU	IC	1	
IC45117, 18	UPD4052BG	IC	2	
IC45119	MC14053BDT	IC	1	
IC45122	NJM79L09UA	IC	1	
IC45201	AN77L05M	IC	1	
IC45202	AK4320VM	IC	1	
IC45203	TVHT541FT	IC	1	
IC45204, 05	TA75W558FU	IC	2	
IC45206, 07	TC4W53FU	IC	2	
IC45301	TA75W558FU	IC	1	
IC45303	UPD4052BG	IC	1	
IC45305	TA75W558FU	IC	1	
IC45307	UPD4052BG	IC	1	
IC45310	AN77L05M	IC	1	
IC45311	XC62DN5002M	IC	1	
IC45401	TA75W558FU	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC45402	NJM78L05UA	IC	1	
IC45403	NJM79L05UA	IC	1	
IC45501, 02	TA75W58FU	IC	2	
IC45503	MC14053BDT	IC	1	
IC45504-06	TA75W58FU	IC	3	
IC45507	TC4W53FU	IC	1	
IC45508	CXA1552M	IC	1	
IC45509	UPD4052BG	IC	1	
IC45510	TA75W58FU	IC	1	
L3401-03	VLQ0319K101	COIL 100UH	3	
L3404	VLQ0426J470	COIL 47UH	1	
L3405	VLQ0319K101	COIL 100UH	1	
L3801	VLQ0163J3R3	COIL 3.3UH	1	
L3901, 02	VLQ0426J270	COIL 27UH	2	
L3903, 04	VLQ0426J680	COIL 68UH	2	
L7001-03	VLQ0319K101	COIL 100UH	3	
L7005	VLQ0319K470	COIL 47UH	1	
L7008	VLQ0426J180	COIL 18UH	1	
L7009	VLQ0426J220	COIL 22UH	1	
L7010	VLQ0426J180	COIL 18UH	1	
L7011	VLQ0426J220	COIL 22UH	1	
L7012	VLQ0426J5R6	COIL 5.6UH	1	
L7301, 02	VLQ0319K101	COIL 100UH	2	
L7303, 04	VLQ0426J680	COIL 68UH	2	
L7401-03	VLQ0319K101	COIL 100UH	3	
L7404	VLQ0426J470	COIL 47UH	1	
L7405	VLQ0319K101	COIL 100UH	1	
L7601	VLQ0426J180	COIL 18UH	1	
L7602	VLQ0319K101	COIL 100UH	1	
L7703	VLQ0319K101	COIL 100UH	1	
L7801	VLQ0163J3R3	COIL 3.3UH	1	
L40101	VLQ0163J100	COIL 10UH	1	
L40201	VLQ0163J100	COIL 10UH	1	
L40401	VLQ0423J472	COIL 4700UH	1	
L40402	VLQ0651K391	COIL 390UH	1	
L45101	VLQ0163J100	COIL 10UH	1	
L45201	VLQ0163J100	COIL 10UH	1	
L45401	VLQ0423J472	COIL 4700UH	1	
L45402	VLQ0651K391	COIL 390UH	1	
P1001, 02	VJS4313D080	CONNECTOR (FEMALE)	2	
P1003, 04	VJP3950A009	CONNECTOR (MALE)	2	
P1005	VJS3801B050	CONNECTOR (FEMALE)	1	
P1006	VJS4313D080	CONNECTOR (FEMALE)	1	
P1008	VJS3791B013	CONNECTOR (FEMALE)	1	
P1009	VJS3406D012	CONNECTOR (FEMALE)	1	
P1010	VJS3826A010	CONNECTOR (FEMALE)	1	
P1011, 12	VJS3826C050	CONNECTOR (FEMALE)	2	
P1013, 14	VJS3826A040	CONNECTOR (FEMALE)	2	
P1015	VJP3950C004	CONNECTOR (MALE)	1	
Q1001	2SB1218A-R	TRANSISTOR	1	
Q3401	2SC3931-C	TRANSISTOR	1	
Q3402, 03	2SD1819A-R	TRANSISTOR	2	
Q3801	2SC3938-R	TRANSISTOR	1	
Q3802, 03	2SA1532-B	TRANSISTOR	2	
Q3804	2SC3938-R	TRANSISTOR	1	
Q3901, 02	2SB1218A-R	TRANSISTOR	2	
Q7001	2SB1218A-R	TRANSISTOR	1	
Q7002	XN4601	TRANSISTOR-RESISTOR	1	
Q7003	2SC3930-B	TRANSISTOR	1	
Q7004	2SD1819A-R	TRANSISTOR	1	
Q7005	2SC3930-B	TRANSISTOR	1	
Q7006, 07	2SB1218A-R	TRANSISTOR	2	
Q7008	2SC3930-B	TRANSISTOR	1	
Q7009	2SB1218A-R	TRANSISTOR	1	
Q7203	2SD1819A-R	TRANSISTOR	1	
Q7204	2SA1532-B	TRANSISTOR	1	
Q7205, 06	2SD1819A-R	TRANSISTOR	2	
Q7301, 02	XN4601	TRANSISTOR-RESISTOR	2	
Q7303-06	2SD1819A-R	TRANSISTOR	4	
Q7307-10	2SB1218A-R	TRANSISTOR	4	
Q7311, 12	2SD1819A-R	TRANSISTOR	2	
Q7313, 14	2SA1532-B	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q7315, 16	2SB1218A-R	TRANSISTOR	2	
Q7401	2SC3931-C	TRANSISTOR	1	
Q7402, 03	2SD1819A-R	TRANSISTOR	2	
Q7601	2SA1532-B	TRANSISTOR	1	
Q7602	2SD1979	TRANSISTOR	1	
Q7701	2SA1532-B	TRANSISTOR	1	
Q7702, 03	2SD1979	TRANSISTOR	2	
Q7704	2SD1819A-R	TRANSISTOR	1	
Q7801	2SC3938-R	TRANSISTOR	1	
Q7802, 03	2SA1532-B	TRANSISTOR	2	
Q7804	2SC3938-R	TRANSISTOR	1	
Q40101, 02	2SD1979	TRANSISTOR	2	
Q40201, 02	2SD1979	TRANSISTOR	2	
Q40203, 04	2SK198-R	TRANSISTOR	2	
Q40301-04	2SB1219A-R	TRANSISTOR	4	
Q40401	2SB779-R	TRANSISTOR	1	
Q40402	2SD1819A-R	TRANSISTOR	1	
Q40403, 04	2SD1979	TRANSISTOR	2	
Q40405	2SD874-R	TRANSISTOR	1	
Q40406	2SD1979	TRANSISTOR	1	
Q40407	2SB779-R	TRANSISTOR	1	
Q40408	2SD1819A-R	TRANSISTOR	1	
Q40409	2SD874-R	TRANSISTOR	1	
Q40410	2SB1220-R	TRANSISTOR	1	
Q40411, 12	2SD1821-R	TRANSISTOR	2	
Q45101, 02	2SD1979	TRANSISTOR	2	
Q45201, 02	2SD1979	TRANSISTOR	2	
Q45203, 04	2SK198-R	TRANSISTOR	2	
Q45303	2SB1219A-R	TRANSISTOR	1	
Q45401	2SB779-R	TRANSISTOR	1	
Q45402	2SD1819A-R	TRANSISTOR	1	
Q45403, 04	2SD1979	TRANSISTOR	2	
Q45405	2SD874-R	TRANSISTOR	1	
Q45406	2SD1979	TRANSISTOR	1	
Q45407	2SB779-R	TRANSISTOR	1	
Q45408	2SD1819A-R	TRANSISTOR	1	
Q45409	2SD874-R	TRANSISTOR	1	
Q45410	2SB1220-R	TRANSISTOR	1	
Q45411, 12	2SD1821-R	TRANSISTOR	2	
QR7001	UN5213	TRANSISTOR-RESISTOR	1	
QR7301, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR40001-04	UN5213	TRANSISTOR-RESISTOR	4	
QR40101	UN5213	TRANSISTOR-RESISTOR	1	
QR40102	UN5113	TRANSISTOR-RESISTOR	1	
QR40103	UN5213	TRANSISTOR-RESISTOR	1	
QR40104	UN5113	TRANSISTOR-RESISTOR	1	
QR40201-03	UN5213	TRANSISTOR-RESISTOR	3	
QR40204-06	UN5113	TRANSISTOR-RESISTOR	3	
QR40207	UN5213	TRANSISTOR-RESISTOR	1	
QR40301, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR40401	UN5113	TRANSISTOR-RESISTOR	1	
QR40402	UN5213	TRANSISTOR-RESISTOR	1	
QR40403, 04	UN5113	TRANSISTOR-RESISTOR	2	
QR40405	UN5213	TRANSISTOR-RESISTOR	1	
QR40501	UN5213	TRANSISTOR-RESISTOR	1	
QR40503	UN5113	TRANSISTOR-RESISTOR	1	
QR40505	UN5213	TRANSISTOR-RESISTOR	1	
QR45001-05	UN5213	TRANSISTOR-RESISTOR	5	
QR45101	UN5213	TRANSISTOR-RESISTOR	1	
QR45102	UN5113	TRANSISTOR-RESISTOR	1	
QR45103	UN5213	TRANSISTOR-RESISTOR	1	
QR45104	UN5113	TRANSISTOR-RESISTOR	1	
QR45201-03	UN5213	TRANSISTOR-RESISTOR	3	
QR45204, 05	UN5113	TRANSISTOR-RESISTOR	2	
QR45206	UN5213	TRANSISTOR-RESISTOR	1	
QR45207	UN5113	TRANSISTOR-RESISTOR	1	
QR45301	UN5213	TRANSISTOR-RESISTOR	1	
QR45401	UN5113	TRANSISTOR-RESISTOR	1	
QR45402	UN5213	TRANSISTOR-RESISTOR	1	
QR45403, 04	UN5113	TRANSISTOR-RESISTOR	2	
QR45405	UN5213	TRANSISTOR-RESISTOR	1	
QR45501	UN5213	TRANSISTOR-RESISTOR	1	
QR45503	UN5113	TRANSISTOR-RESISTOR	1	
QR45505	UN5213	TRANSISTOR-RESISTOR	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1001	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1003	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1005, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1009, 10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1011	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R1012, 13	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R3401, 02	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3403	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R3404	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3406	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R3408	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3409	ERJ3RBD272	M. RESISTOR CH 1/16W 2. 7K	1	
R3410, 11	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3412	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3414	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R3415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3416	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R3417	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R3418	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R3419	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R3420	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R3421	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3422	ERJ3RBD152	M. RESISTOR CH 1/16W 1. 5K	1	
R3423	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R3424	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R3425	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3426	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3427	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3429	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R3430	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3431	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R3432	ERJ3RBD332	M. RESISTOR CH 1/16W 3. 3K	1	
R3433, 34	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3439	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3442, 43	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3444	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R3445	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R3446	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3448	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3450	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3452	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3453	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3454, 55	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3456-58	ERJ3RBD152	M. RESISTOR CH 1/16W 1. 5K	3	
R3460	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3461	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R3462	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3463	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3464	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R3466	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3801	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R3802	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3803	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R3804	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3805	ERJ3RBD682	M. RESISTOR CH 1/16W 6. 8K	1	
R3806	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R3807	ERJ3RBD332	M. RESISTOR CH 1/16W 3. 3K	1	
R3808	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3811	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3812, 13	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3814	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R3815	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R3817	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R3818, 19	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	2	
R3820	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R3821	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3822, 23	ERJ3RBD392	M. RESISTOR CH 1/16W 3. 9K	2	
R3824	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3825	ERJ3RBD562	M. RESISTOR CH 1/16W 5. 6K	1	
R3826	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3828	ERJ3RBD152	M. RESISTOR CH 1/16W 1. 5K	1	
R3830	ERJ3RBD332	M. RESISTOR CH 1/16W 3. 3K	1	
R3831, 32	ERJ3RBD682	M. RESISTOR CH 1/16W 6. 8K	2	
R3833	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3834, 35	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3836	ERJ3RBD682	M. RESISTOR CH 1/16W 6. 8K	1	
R3837-42	ERJ3RED470	M. RESISTOR CH 1/16W 47	6	
R3901-11	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	11	
R3912-14	ERJ3RBD101	M. RESISTOR CH 1/16W 100	3	
R3915, 16	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3917	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3919-22	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R3923, 24	ERJ3RBD271	M. RESISTOR CH 1/16W 270	2	
R3925, 26	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	2	
R3927, 28	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R7001	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7002	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7003	ERJ3RBD682	M. RESISTOR CH 1/16W 6. 8K	1	
R7004	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R7005	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7006	ERJ3RBD562	M. RESISTOR CH 1/16W 5. 6K	1	
R7007	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7010	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7011	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7012	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7014	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7015	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7017	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R7019	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7020	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7021, 22	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7023	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R7024	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7026	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7027-29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R7031	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7032	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R7033	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R7034	ERJ3RED270	M. RESISTOR CH 1/16W 27	1	
R7035	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7036	ERJ3RBD332	M. RESISTOR CH 1/16W 3. 3K	1	
R7037	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7038	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7039	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7040	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R7041	ERJ3RBD182	M. RESISTOR CH 1/16W 1. 8K	1	
R7042	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7044	VRE006610102	M. RESISTOR CH 1/10W 1K	1	
R7045	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7046	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7047	ERJ3RBD332	M. RESISTOR CH 1/16W 3. 3K	1	
R7048	ERJ6RBD221	M. RESISTOR CH 1/10W 220	1	
R7049	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R7050	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R7051	ERJ6RBD221	M. RESISTOR CH 1/10W 220	1	
R7052	ERJ3RED750	M. RESISTOR CH 1/16W 75	1	
R7055	ERJ3RBD472	M. RESISTOR CH 1/16W 4. 7K	1	
R7056	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7057	ERJ3RBD182	M. RESISTOR CH 1/16W 1. 8K	1	
R7058	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R7059	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7060	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7061	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R7062	ERJ3RBD182	M. RESISTOR CH 1/16W 1. 8K	1	
R7063	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R7064	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7066	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R7067	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7068	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7069, 70	ERJ3RBD681	M. RESISTOR CH 1/16W 680	2	
R7071	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7075	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R7080	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7082	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R7084	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7085, 86	ERJ3RBD681	M. RESISTOR CH 1/16W 680	2	
R7087, 88	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7089	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R7090	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7094-96	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R7098	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7099	VRE006622102	V. RESISTOR CH 1/10W 1K	1	
R7100	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7217	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7219	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7221, 22	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R7225, 26	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	2	
R7227	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R7233	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7234	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7239	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R7242	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7244	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7246	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7301	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7302, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7304-07	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R7308, 09	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	2	
R7310, 11	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7312	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R7313	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7314, 15	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R7316, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7318, 19	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	2	
R7320, 21	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	2	
R7322, 23	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7324-27	ERJ3RBD101	M. RESISTOR CH 1/16W 100	4	
R7328, 29	ERJ3RBD821	M. RESISTOR CH 1/16W 820	2	
R7330, 31	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R7332, 33	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7334, 35	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7336, 37	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	2	
R7338, 39	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R7340	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7341	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7342	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7343	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7344, 45	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R7346-49	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R7350-53	ERJ3RED470	M. RESISTOR CH 1/16W 47	4	
R7354, 55	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7356-59	ERJ3RBD681	M. RESISTOR CH 1/16W 680	4	
R7360-63	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R7364	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R7365	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R7366, 67	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7368, 69	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7401, 02	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R7403	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7404	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R7405	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R7406	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R7408	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7409	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7411	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7412	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7414	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R7415	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7416	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7417	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R7418	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R7419	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7420	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7421	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7422	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7423	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7424	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7425	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R7426	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R7427	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7428	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7430	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7431	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7432	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7433-35	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R7437	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7441	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7442	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7443	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7444	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7445	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7446	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R7447	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7449	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7450	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7452	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7453	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7455	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7456	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R7458	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7459	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R7460-62	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	3	
R7463	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R7464	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7465	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7466	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7601	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7604, 05	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R7606	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R7608	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R7609	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R7610	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7614	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7615	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R7616	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7617	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7619	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7620	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R7621	ERJ3RED750	M. RESISTOR CH 1/16W 75	1	
R7622	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7626	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7627	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7628	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7629	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7630-37	ERJ3RBD101	M. RESISTOR CH 1/16W 100	8	
R7701	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7703, 04	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R7705, 06	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R7709, 10	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2	
R7711	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7714, 15	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R7716, 17	ERJ3RBD221	M. RESISTOR CH 1/16W 220	2	
R7718, 19	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7722, 23	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	2	
R7724, 25	ERJ3RED750	M. RESISTOR CH 1/16W 75	2	
R7726	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R7727	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7729	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R7730	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7734, 35	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R7736	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7737	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7738	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7739	ERJ3RBD152	M. RESISTOR CH 1/16W 15K	1	
R7740, 41	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7742	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7743	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7744	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7745	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7746-61	ERJ3RBD101	M. RESISTOR CH 1/16W 100	16	
R7763	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7765	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7766	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7801	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7802	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7803	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7804	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7805	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7806	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7807	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7808	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7811	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7812, 13	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R7814	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7815	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R7817	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7818, 19	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7820	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R7821	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7822, 23	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	
R7824	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7825	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R7826	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7827	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7828	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R7830	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7831, 32	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R7833	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7834, 35	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R7836	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R7837-42	ERJ3RED470	M. RESISTOR CH 1/16W 47	6	
R40001-04	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R40005-12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	8	
R40013	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40101	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40102, 03	ERJ12YJ621	M. RESISTOR CH 1/2W 620	2	
R40104	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40105	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40106	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R40107	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40108	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40109	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R40110-12	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R40113, 14	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	2	
R40115	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40116	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40117, 18	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R40119	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40120	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40121, 22	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R40123	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40124-27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R40128	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40129	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40130-33	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R40134	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40135	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R40136	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40137	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R40138	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R40139	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40140	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R40141, 42	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40143, 44	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	2	
R40145-48	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R40149-52	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R40155, 56	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40157	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40159-62	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R40168	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40173	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40174	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R40175	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R40176, 77	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R40180	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R40181	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R40182	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R40183	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R40184	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40185	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R40186	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R40188	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40204	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40206-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40209-12	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
R40213	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40215	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40216	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40217	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40219, 20	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R40222, 23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40224-27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R40228, 29	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	2	
R40230, 31	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R40232, 33	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	2	
R40234, 35	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	2	
R40236, 37	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40238	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40239	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40240	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40241	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40242	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40243	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40244, 45	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	2	
R40246, 47	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R40248, 49	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R40250, 51	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40252	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R40253	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40254	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R40255	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40256	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40257	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40258	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40259	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40260	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40261	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40262	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40263	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40264, 65	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40266	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R40301	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40302	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40304, 05	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40307	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40309	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R40310	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40312	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40313	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40315, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40317	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40318	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40319-21	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	3	
R40322	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1	
R40323	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R40324	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R40325	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1	
R40326	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R40327	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R40328, 29	ERJ3RBD752	M. RESISTOR CH 1/16W 7.5K	2	
R40330	ERJ3RBD473	M. RESISTOR CH 1/16W 4.7K	1	
R40331	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R40332	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40333	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R40334, 35	ERJ3RBD752	M. RESISTOR CH 1/16W 7.5K	2	
R40336, 37	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R40338, 39	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40340, 41	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	2	
R40343	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40345	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40401	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40403	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40404	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40405	ERJ3RED100	M. RESISTOR CH 1/16W 10	1	
R40406	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40407	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40408	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40409	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40410	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1	
R40411	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R40412	ERJ3RED390	M. RESISTOR CH 1/16W 39	1	
R40413	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40414	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R40415	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40416	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R40417	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40418	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R40419, 20	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40421	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R40422	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40423	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40424	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40427	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40428	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40429	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1	
R40430	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R40431	ERJ3RED390	M. RESISTOR CH 1/16W 39	1	
R40432	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40433	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R40434	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R40435	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40436	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R40437	ERJ6GEYJ201	M. RESISTOR CH 1/10W 200	1	
R40438	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40442	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40501	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40502	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R40503	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40504	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R40505	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40506	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40507	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40508	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40509	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40510	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40511	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40513	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40515	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40516	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40517	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R40519	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40520	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40521	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40523-25	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R40526	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40527	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R40528	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40529	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R40530	ERJ3RBD823	M. RESISTOR CH 1/16W 82K	1	
R40532	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R40533	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40534	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R40535, 36	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40537	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R40538-40	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R40542	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40543	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40544	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40546, 47	ERJ3RBD471	M. RESISTOR CH 1/16W 470	2	
R40548	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40549	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R40550	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R40551	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40552	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40554	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45005-12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	8	
R45013	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45101	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45102, 03	ERJ12YJ621	M. RESISTOR CH 1/2W 620	2	
R45104	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45105	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45106	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R45107	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45108	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45109	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R45110-12	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R45113, 14	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	2	
R45115	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45116	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45117, 18	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R45119	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45120	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45121, 22	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R45123	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45124-27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R45128	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45129	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45130-33	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R45134	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45135	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R45136	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45137	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R45138	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R45139	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45140	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R45141, 42	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45143, 44	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	2	
R45145-48	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R45149-52	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R45155, 56	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45157	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45159-62	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R45168	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45173	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45174	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45175	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45181	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45184	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R45185	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R45186	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R45187	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R45189	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45190	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R45191	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R45192	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R45193	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R45204	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45206-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R45209-12	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
R45213	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45215	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45217	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45219, 20	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R45222, 23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45224-27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R45228, 29	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	2	
R45230, 31	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R45232, 33	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	2	
R45234, 35	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	2	
R45236, 37	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45238	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45239	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45240	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45241	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45242	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45243	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45244, 45	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	2	
R45246, 47	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R45248, 49	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R45250, 51	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R45252	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45253	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45254	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R45255	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45256	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45257	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45258	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R45259	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45260, 61	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45262	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R45263, 64	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R45265, 66	ERJ3RBD391	M. RESISTOR CH 1/16W 390	2	
R45304	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45307	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45309	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R45310	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45315, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R45317	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45318	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45320	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45322	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1	
R45323	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R45324	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R45325	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1	
R45326	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R45327	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R45328, 29	ERJ3RBD752	M. RESISTOR CH 1/16W 7.5K	2	
R45330	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45331	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R45332	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45333	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R45334, 35	ERJ3RBD752	M. RESISTOR CH 1/16W 7.5K	2	
R45336, 37	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R45338, 39	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45340, 41	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	2	
R45343	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45345	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45401	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45403	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45404	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R45405	ERJ3RED100	M. RESISTOR CH 1/16W 10	1	
R45406	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45407	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45408	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45409	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45410	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1	
R45411	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R45412	ERJ3RED390	M. RESISTOR CH 1/16W 39	1	
R45413	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45414	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R45415	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45416	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R45417	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45418	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R45419, 20	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45421	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R45422	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R45423	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45424	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45427	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45428	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45429	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1	
R45430	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R45431	ERJ3RED390	M. RESISTOR CH 1/16W 39	1	
R45432	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45433	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R45434	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R45435	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45436	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R45437	ERJ6GEYJ201	M. RESISTOR CH 1/10W 200	1	
R45438	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45442	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R45501	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45502	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R45503	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45504	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R45505	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45506	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45507	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45508	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45509	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45510	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R45511	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45513	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45515	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45516	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45517	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R45519	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45520	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45521	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45523-25	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R45526	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45527	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R45528	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45529	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R45530	ERJ3RBD823	M. RESISTOR CH 1/16W 82K	1	
R45532	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R45533	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45534	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R45535, 36	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R45537	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R45538-40	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R45542	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45543	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45544	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45546, 47	ERJ3RBD471	M. RESISTOR CH 1/16W 470	2	
R45548	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45549	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R45550	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R45551	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45552	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45554	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
SW40101, 02	VSS0126	SWITCH	2	
SW45101, 02	VSS0126	SWITCH	2	
T40401, 02	VLTO729	TRANSFORMER	2	
T45401, 02	VLTO729	TRANSFORMER	2	
TG3402	EYF6CU	TEST POINT	1	
TG3801	EYF6CU	TEST POINT	1	
TG7001	EYF6CU	TEST POINT	1	
TG7301	EYF6CU	TEST POINT	1	
TG7402	EYF6CU	TEST POINT	1	
TG7801	EYF6CU	TEST POINT	1	
TG40101	EYF6CU	TEST POINT	1	
TG40201	EYF6CU	TEST POINT	1	
TG40301	EYF6CU	TEST POINT	1	
TG40501	EYF6CU	TEST POINT	1	
TG45101	EYF6CU	TEST POINT	1	
TG45201	EYF6CU	TEST POINT	1	
TG45301	EYF6CU	TEST POINT	1	
TG45501	EYF6CU	TEST POINT	1	
TP3401-06	EYF6CU	TEST POINT	6	
TP3802, 03	EYF6CU	TEST POINT	2	
TP3901-05	EYF6CU	TEST POINT	5	
TP7401	EYF6CU	TEST POINT	1	
TP7403-07	EYF6CU	TEST POINT	5	
TP7601	EYF6CU	TEST POINT	1	
TP7701, 02	EYF6CU	TEST POINT	2	
TP7802, 03	EYF6CU	TEST POINT	2	
TP40101-06	EYF6CU	TEST POINT	6	
TP40201-04	EYF6CU	TEST POINT	4	
TP40301, 02	EYF6CU	TEST POINT	2	
TP40401-03	EYF6CU	TEST POINT	3	
TP40501	EYF6CU	TEST POINT	1	
TP45101-05	EYF6CU	TEST POINT	5	
TP45107, 08	EYF6CU	TEST POINT	2	
TP45201-04	EYF6CU	TEST POINT	4	
TP45301, 02	EYF6CU	TEST POINT	2	
TP45401-03	EYF6CU	TEST POINT	3	
TP45501	EYF6CU	TEST POINT	1	
VC3901, 02	VCO0050	TRIMMER	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR3401	EVM7JGA00B14	V. RESISTOR	10K 1	
VR3402	EVM7JGA00B13	V. RESISTOR	1K 1	
VR3403	EVM7JGA00B53	V. RESISTOR	5K 1	
VR3801	EVM7JGA00B23	V. RESISTOR	2K 1	
VR7001	EVM7JGA00B14	V. RESISTOR	10K 1	
VR7002	EVM7JGA00B52	V. RESISTOR	500 1	
VR7301, 02	EVM7JGA00B23	V. RESISTOR	2K 2	
VR7305, 06	EVM7JGA00B13	V. RESISTOR	1K 2	
VR7401	EVM7JGA00B14	V. RESISTOR	10K 1	
VR7402	EVM7JGA00B13	V. RESISTOR	1K 1	
VR7403	EVM7JGA00B53	V. RESISTOR	5K 1	
VR7601	EVM7JGA00B23	V. RESISTOR	200 1	
VR7602	EVM7JGA00B52	V. RESISTOR	5K 1	
VR7701, 02	EVM7JGA00B22	V. RESISTOR	200 2	
VR7703, 04	EVM7JGA00B53	V. RESISTOR	5K 2	
VR7801	EVM7JGA00B23	V. RESISTOR	2K 1	
VR40101, 02	EVM7JGA00B14	V. RESISTOR	10K 2	
VR40201, 02	EVM7JGA00B14	V. RESISTOR	10K 2	
VR40401	EVM7JGA00B14	V. RESISTOR	10K 1	
VR40402	EVM7JGA00B54	V. RESISTOR	50K 1	
VR40501, 02	EVM7JGA00B14	V. RESISTOR	10K 2	
VR40503, 04	EVM7JGA00B53	V. RESISTOR	5K 2	
VR40505	EVM7JGA00B54	V. RESISTOR	50K 1	
VR40506	EVM7JGA00B24	V. RESISTOR	20K 1	
VR45101, 02	EVM7JGA00B14	V. RESISTOR	10K 2	
VR45201, 02	EVM7JGA00B14	V. RESISTOR	10K 2	
VR45401	EVM7JGA00B14	V. RESISTOR	10K 1	
VR45402	EVM7JGA00B54	V. RESISTOR	50K 1	
VR45501, 02	EVM7JGA00B14	V. RESISTOR	10K 2	
VR45503, 04	EVM7JGA00B53	V. RESISTOR	5K 2	
VR45505	EVM7JGA00B54	V. RESISTOR	50K 1	
VR45506	EVM7JGA00B24	V. RESISTOR	20K 1	
X3401	H1C1775A0002	CRYSTAL OSCILLATOR	1	
X7401	H1C1775A0002	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VMS4913	P. C. BOARD SPACER	5	
	XYN3+K6	SCREW	5	
■ E24	VEP84337A	AV I/O P. C. BOARD	1 (RTL)	
C42001-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7	
C42008, 09	EEVHB1C470	E. CAPACITOR 16V 47U	2	
C42010-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C42014, 15	EEVHBOJ330	E. CAPACITOR 6.3V 33U	2	
C42016, 17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C42101	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C42102, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C42104, 05	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C42106	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C42107-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C42111-14	EEVHB1C100	E. CAPACITOR 16V 10U	4	
C42115, 16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C42117, 18	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C42119-26	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C42127	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C42128	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C42129	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C42130	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C42131-34	EEVHB1C470	E. CAPACITOR 16V 47U	4	
C42201, 02	EEVHP1C100	E. CAPACITOR 16V 10U	2	
C42203	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C42204	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C42205	EEVHB1H1R0	E. CAPACITOR 50V 1U	1	
C42206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C42207	EEVHB1H1R0	E. CAPACITOR 50V 1U	1	
C42208, 09	EEVHB1C470	E. CAPACITOR 16V 47U	2	
C42210, 11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C42212	ECUX1E681JCV	C. CAPACITOR CH 25V 680P	1	
C42213	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C42214	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C42215	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C42216	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	1	
C42218	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1	
C42219	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C42222	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	1	
C42223, 24	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	2	
C42225	EEVHBOJ101	E. CAPACITOR 6.3V 100U	1	
C42226, 27	EEVHB1C470	E. CAPACITOR 16V 47U	2	
C42228, 29	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C42230	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C42231	ECHU1C104J	P. CAPACITOR 16V 0.1U	1	
C42232, 33	EEVHB1C470	E. CAPACITOR 16V 47U	2	
C42234	ECHU1C104J	P. CAPACITOR 16V 0.1U	1	
C42235	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C42236	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C42237	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C42238	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C42239	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C42240-42	EEVHB1E330P	E. CAPACITOR 25V 33U	3	
C42243, 44	ECEA1CGE471	E. CAPACITOR 16V 470U	2	
C42245-49	EEVHB1E330P	E. CAPACITOR 25V 33U	5	
C42250	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
D42001, 02	MA716	DIODE	2	
D42201-03	MA142WK	DIODE	3	
D42204	MA152K	DIODE	1	
D42205, 06	MA142WK	DIODE	2	
IC42001	NJM78L09UA	IC	1	
IC42002	NJM79L09UA	IC	1	
IC42003, 04	TA75W58FU	IC	2	
IC42005	XC62AP5002M	IC	1	
IC42006	XC62DN5002M	IC	1	
IC42101-04	NJM4556AM	IC	4	
IC42201	M51132L	IC	1	
IC42202	NJM062V	IC	1	
IC42203	TA75W58FU	IC	1	
IC42204	TC4W53FU	IC	1	
IC42205	BA5415A	IC	1	
P42301	VJS3791D040	CONNECTER (FEMALE)	1	
P42302	VJP1242T	CONNECTOR (MALE)	1	
P42303	VJP3926B010	CONNECTOR (MALE)	1	
P42304	VJP3125B005	CONNECTOR (MALE) 5P	1	
P42305	VJP3125B004	CONNECTOR (MALE) 4P	1	
Q42001	2SB1219A-R	TRANSISTOR	1	
Q42101, 02	2SD602A-R	TRANSISTOR	2	
Q42103, 04	2SB710A-R	TRANSISTOR	2	
Q42201	2SD1819A-R	TRANSISTOR	1	
Q42202	2SK663-R	TRANSISTOR	1	
Q42203	XN1501	TRANSISTOR-RESISTOR	1	
Q42204	2SB1219-R	TRANSISTOR	1	
Q42205	2SB1219A-R	TRANSISTOR	1	
Q42206	2SB1219-R	TRANSISTOR	1	
Q42207-14	2SD1979	TRANSISTOR	8	
Q42215	2SD874A-R	TRANSISTOR	1	
QR42001	UN5213	TRANSISTOR-RESISTOR	1	
QR42201-05	UN5213	TRANSISTOR-RESISTOR	5	
R42001	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R42002	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R42003, 04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R42007, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R42009	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R42010	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R42011	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R42012	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R42014	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R42015	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R42017	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R42101-04	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R42105	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R42106	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42107	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R42108	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42109, 10	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R42111-18	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	8	
R42119	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R42120, 21	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R42122	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R42123, 24	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R42125-28	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	4	
R42131, 32	ERJ14YJ220	M. RESISTOR CH 1/4W 22	2	
R42133, 34	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R42135, 36	ERJ14YJ220	M. RESISTOR CH 1/4W 22	2	
R42137, 38	ERJ3RED150	M. RESISTOR CH 1/16W 15	2	
R42139-42	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R42143-46	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	4	
R42147-50	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R42151, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R42201, 02	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R42203	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R42204	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R42207-09	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R42210, 11	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R42214	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R42215	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R42216	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R42217	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R42219	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R42220	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R42221	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42222	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R42225	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R42226, 27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R42228	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R42229, 30	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	2	
R42231, 32	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R42233	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R42234	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R42235	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R42236	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R42237	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R42238, 39	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R42240	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R42241	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R42242, 43	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R42244	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42245	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R42246, 47	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R42248, 49	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	2	
R42250	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R42251	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R42252	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R42253, 54	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R42255	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R42256-60	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R42301-03	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
R42305-07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R42308	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R42309-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
RY42101-04	AQV212SX	IC	4	
RY42201	VSU2176	RELAY	1	
SW42201	VSS0367-02B	SWITCH	1	
TG42003	EYF6CU	TEST POINT	1	
TG42206	EYF6CU	TEST POINT	1	
TP42001, 02	EYF6CU	TEST POINT	2	
TP42201-05	EYF6CU	TEST POINT	5	
VR42101, 02	VRV0161B501	V. RESISTOR 500	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR42201, 02	VRV0161B502	V. RESISTOR 5K	2	
■ E25	VEP84338A	MIC AMP P. C. BOARD	1	(RTL)
C4001, 02	EEVHB0J470	E. CAPACITOR 6.3V 47U	2	
C4003, 04	EEVHP1C100	E. CAPACITOR 16V 10U	2	
C4005	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C4006, 07	ECUM1H681KBN	MKR (ECUV1H681KBN)	2	
C4008-10	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	3	
C4011	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C4012, 13	ECUM1H681KBN	MKR (ECUV1H681KBN)	2	
C4014, 15	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C4016	EEVHB0J470	E. CAPACITOR 6.3V 47U	1	
C4017, 18	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C4019	EEVHB0J470	E. CAPACITOR 6.3V 47U	1	
C4022, 23	EEVHB0J470	E. CAPACITOR 6.3V 47U	2	
D4001	MA152WK	DIODE	1	
D4002	MA151WK	DIODE	1	
D4003	MA152WA	DIODE	1	
D4004	MA716	DIODE	1	
FL4001, 02	VLF0941C223	FILTER	2	
IC4001	NJM2122M	IC	1	
IC4002	NJM4580ED	IC	1	
IC4003	AN77L05M	IC	1	
IC4004	XC62DN5002M	IC	1	
P4001	VJP4329A040	CONNECTOR (MALE)	1	
P4002	VJP4329A030	CONNECTOR (MALE)	1	
P4003	VJP4329A040	CONNECTOR (MALE)	1	
P4004, 05	VJS3826C050	CONNECTOR (FEMALE)	2	
P4006	VJS3826A013	CONNECTOR (FEMALE)	1	
P4007	VJS3826C016	CONNECTOR (FEMALE)	1	
P4008, 09	VJP1243T	CONNECTOR (MALE) 3P	2	
P4010	VJP1231T	CONNECTOR (MALE) 4P	1	
Q4001	2SD1819A-R	TRANSISTOR	1	
Q4002	2SB1219A-R	TRANSISTOR	1	
R4001	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4002	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R4003	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R4004	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1	
R4005, 06	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R4007, 08	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	2	
R4009	ERJ6RED430	M. RESISTOR CH 1/10W 43	1	
R4010-15	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	6	
R4016, 17	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	2	
R4018	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R4021, 22	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R4024-26	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
RY4001	VSU2176	RELAY	1	
		MISCELLANEOUS		
■ E26	VEP84339A	REAR JACK P. C. BOARD	1	(RTL)
C4001-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C4101	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
C4102, 03	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4104-09	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	6	
C4110-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C4115	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
C4116	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4117	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
C4118, 19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4120, 21	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	2	
C4122, 23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4201-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C4236-40	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
D4101-07	MA142K	DIODE	7	
IC3201-03	MC14053BF	IC	3	
IC3207	MC14053BF	IC	1	
J4001	VJS3902	CONNECTOR (FEMALE)	1	
J4002	VJS4316	JUMPER PORT	1	
J4003, 04	VJP3414A009	CONNECTOR (MALE)	2	
J4005	VJS4316	JUMPER PORT	1	
J4006	VJS3902	CONNECTOR (FEMALE)	1	
J4007	VJS414A009	CONNECTOR (FEMALE)	1	
J4101	VJS4314	JUMPER PORT	1	
J4102, 03	VJS3902	CONNECTOR (FEMALE)	2	
J4201-04	VJS4317	CONNECTOR (FEMALE)	4	
J4205-10	VJP3417	CONNECTOR (MALE)	6	
L4001-23	VLP0145	COIL	23	
L4101	VLP0145	COIL	1	
L4102-05	VLQ0319K101	COIL 100UH	4	
L4201	VLP0145	COIL	1	
L4203	VLP0145	COIL	1	
L4205, 06	VLP0145	COIL	2	
L4208	VLP0145	COIL	1	
L4210, 11	VLP0145	COIL	2	
L4213	VLP0145	COIL	1	
L4215, 16	VLP0145	COIL	2	
L4218	VLP0145	COIL	1	
L4220, 21	VLP0145	COIL	2	
L4223	VLP0145	COIL	1	
L4225, 26	VLP0145	COIL	2	
L4228	VLP0145	COIL	1	
L4230, 31	VLP0145	COIL	2	
L4233	VLP0145	COIL	1	
L4235, 36	VLP0145	COIL	2	
L4238	VLP0145	COIL	1	
L4240, 41	VLP0145	COIL	2	
L4243	VLP0145	COIL	1	
L4245, 46	VLP0145	COIL	2	
L4248	VLP0145	COIL	1	
L4250	VLP0145	COIL	1	
P4001	VJS4329A040	CONNECTOR (FEMALE)	1	
P4002	VJS4329A030	CONNECTOR (FEMALE)	1	
P4003	VJS4329A040	CONNECTOR (FEMALE)	1	
Q4101-07	XN4601	TRANSISTOR-RESISTOR	7	
Q4108	2SB1218A-R	TRANSISTOR	1	
R4003, 04	ERJ14YJ101	M. RESISTOR CH 1/4W 100	2	
R4005-07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R4008	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R4009-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R4013, 14	ERJ14YJ101	M. RESISTOR CH 1/4W 100	2	
R4101-06	ERJ6RBD151	M. RESISTOR CH 1/10W 150	6	
R4107	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4108-15	ERJ6RBD151	M. RESISTOR CH 1/10W 150	8	
R4116	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4117	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4118, 19	ERJ6RBD151	M. RESISTOR CH 1/10W 150	2	
R4120-26	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R4127	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4128-30	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R4131	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4132	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4133	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4134	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R4135	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4136, 37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R4138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4139-41	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R4142, 43	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R4144-46	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R4147, 48	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4149	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4150, 51	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R4152, 53	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R4154	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4155	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4156	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4157	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4158-60	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R4161, 62	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4163	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4164, 65	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R4166, 67	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R4168	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4169	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4170	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R4171	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4172	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4173	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4174	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4175	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4176, 77	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R4178	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4179, 80	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R4401-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R4406-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R4412	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
SW4001	VSR0066	SWITCH	1	
		MISCELLANEOUS		
	VMP6229	D-SUB ANGLE	3	
	VMS6279	SPACER	4	
	XYN26+C4	SCREW	4	
	VXQ0102	SCREW	6	
■ E27	VEP84340A	VR BOARD 1 P.C. BOARD	1 (RTL)	
C64001, 02	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
D64001-04	M1MA151K	DIODE	4	
P64001	VJS3791B030	CONNECTOR (FEMALE)	1	
R64001, 02	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	2	
R64003-10	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	8	
R64011-19	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	9	
SW64001	VSS0279	SWITCH	1	
SW64002	VSS0313	SWITCH	1	
SW64003, 04	KOG119A00024	SWITCH	2	
VR64001-04	VRV0279	V. RESISTOR	4	
		MISCELLANEOUS		
	VJF1309	PIERCE HOLDER	1	
	VMT0776	GASLET (F)	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E28	VEP84341A	VR BOARD 2 P.C. BOARD	1 (RTL)	
C64501	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
D64501-09	MA151K	DIODE	9	
P64501	VJS3791B030	CONNECTOR (FEMALE)	1	
R64501-03	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	3	
R64504-11	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	8	
R64512	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R64513-16	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	4	
R64517	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R64518-23	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	6	
R64524-30	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	7	
R64531, 32	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R64533	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R64534-37	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	4	
SW64501	VSS0279	SWITCH	1	
SW64502	VSS0313	SWITCH	1	
SW64503	KOG119A00024	SWITCH	1	
SW64504	VSS0313	SWITCH	1	
SW64505	KOG119A00024	SWITCH	1	
SW64506	VSS0313	SWITCH	1	
SW64507	KOG119A00024	SWITCH	1	
SW64508	VSS0313	SWITCH	1	
SW64509	KOG119A00024	SWITCH	1	
VR64501-08	VRV0279	V. RESISTOR	8	
VR64509-12	VRV0324	V. RESISTOR	4	
		MISCELLANEOUS		
	VJF1309	PIERCE HOLDER	1	
■ E29	VEP84344B	AD/VD SUB P.C. BOARD	1 (RTL)	
C3001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3003	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3004	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3005	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3006	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3007	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3008	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3009	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3010	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3011	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3012, 13	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C3014	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3015	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3016, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3018	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3020	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3021	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3022	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3023, 24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3025-28	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	4	
C3029	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3030	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3031	ECEVOJV101Q	E. CAPACITOR CH6.3V 100U	1	
C3032	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C3033	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3034	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3035	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3036	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3037	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3038	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3040	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3041	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3042, 43	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3044	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3045	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3046	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3047	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C3048	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3049	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3050	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3051	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3052	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3053	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3054	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3055	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3056	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3057, 58	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3059	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3060	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3061	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3062	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3063	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3064, 65	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C3066	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3067	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3068, 69	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C3201	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3202	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3203	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3204	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3205	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3206	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C3207	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3208, 09	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3210	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3211	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C3212	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3213, 14	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C3215	ECEV1HV47RQ	E. CAPACITOR CH 50V 4.7U	1	
C3217	ECHU1C392J	P. CAPACITOR 16V 3900P	1	
C3218	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C3219	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C3220	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C3221	ECHU1C152J	P. CAPACITOR 16V 1500P	1	
C3222	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3223, 24	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C3225	ECUM1C334KBM	C. CAPACITOR CH 16V 0.33U	1	
C3226	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3227	ECHU1C683JB5	P. CAPACITOR 16V 0.068U	1	
C3228	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C3229	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C3230	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3231	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3232	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3233	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3234	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3235	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C3236	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3237	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3238	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3239	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3240	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3301	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3302	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C3303, 04	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	2	
C3305	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3306-13	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	8	
C3316, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3318	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3319, 20	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C3321	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3322, 23	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C3324, 25	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
C3328, 29	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3330	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3331, 32	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C3333, 34	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3335	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3337	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3501, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3601	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3603	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C3604	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3606	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3607, 08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3610, 11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3613	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3614	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3615	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3616	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3617	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3618	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C3619	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3620, 21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3622	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3623, 24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3625	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3626	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3701	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3702, 03	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	2	
C3706, 07	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	2	
C3708	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3710	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3712	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C3713, 14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3716	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3718-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3721	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C3722	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3723	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C3724, 25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3726, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3728, 29	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C3730, 31	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3732, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3734	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3735-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3739	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7201	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7202	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C7203	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7204	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7206	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C7207	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C7209	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7210	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7211	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7212	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7213, 14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7215	ECEV1HV4R70	E. CAPACITOR CH 50V 4.7U	1	
C7217	ECHU1C392J	P. CAPACITOR 16V 3900P	1	
C7218	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C7219	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C7220	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C7221	ECHU1C152J	P. CAPACITOR 16V 1500P	1	
C7222	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7223, 24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7225	ECUM1C334KBM	C. CAPACITOR CH 16V 0.33U	1	
C7226	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7227	ECHU1C683JB5	P. CAPACITOR 16V 0.068U	1	
C7228	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C7229	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C7230	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7231	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7232	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7234	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7236	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7237	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7238	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7239	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7240	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7501, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40601-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40606, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40608, 09	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
C40610, 11	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	2	
C40612, 13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40614	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	1	
C40615	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C40616-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40621, 22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40623	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C40624	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40625	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40626, 27	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	2	
C40628, 29	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
C40630	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C40632	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C40633	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40634, 35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40636	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40637-44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C41001	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C41002, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C41004, 05	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C41006	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C41007-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C41011-14	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	4	
C41015, 16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C41017, 18	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C41019-26	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C41027	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C41028	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C41029	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C41030	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C41039-42	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	4	
C41043-50	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	8	
C41101, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41103	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C41104, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41106	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C41108-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C41111	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C41112	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C41113	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C41115	ECEVOJV101Q	E. CAPACITOR CH6. 3V 100U	1	
C41117	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C41119	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C41121, 22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41125	ECHU1C472JB	P. CAPACITOR 16V 4700P	1	
C41127	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C41129, 30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41131	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C41132, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41201, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41203	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C41204, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41206	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C41208-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C41211	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C41212	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C41213	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C41215	ECEVOJV101Q	E. CAPACITOR CH6. 3V 100U	1	
C41216	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C41218, 19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41220	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C41221, 22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41223	ECHU1C472JB	P. CAPACITOR 16V 4700P	1	
C41224, 25	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	2	
C41226, 27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45601-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45606, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45608, 09	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	2	
C45610, 11	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C45612, 13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45614	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	1	
C45615	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C45616-19	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C45621, 22	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45623	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C45624	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C45625	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C45626, 27	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	2	
C45628, 29	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
C45630	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C45632	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C45633	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45634, 35	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C45636	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45637-44	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C46001	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C46002, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C46004, 05	ECEVICV100Q	E. CAPACITOR CH 16V 10U	2	
C46006	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C46007-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C46011-14	ECEVICV100Q	E. CAPACITOR CH 16V 10U	4	
C46015, 16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C46017, 18	ECEVICV100Q	E. CAPACITOR CH 16V 10U	2	
C46019-26	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C46027	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C46028	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C46029	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C46030	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C46039-42	ECEVICV470Q	E. CAPACITOR CH 16V 47U	4	
C46043-50	ECEVICV100Q	E. CAPACITOR CH 16V 10U	8	
D3201, 02	MA142WK	D1ODE	2	
D3701-04	MA142WK	D1ODE	4	
D7201, 02	MA142WK	D1ODE	2	
D40601	MA157	D1ODE	1	
D40602	MA142WK	D1ODE	1	
D40603	MA716	D1ODE	1	
D41001-04	MA147	D1ODE	4	
D45601	MA157	D1ODE	1	
D45602	MA142WK	D1ODE	1	
D45603	MA716	D1ODE	1	
D46001-04	MA147	D1ODE	4	
FL3001	VLF1015	FILTER	1	
FL3201	VLF1179	FILTER	1	
FL3301, 02	VLF1476	FILTER	2	
IC3002	CXD2024AQ	IC	1	
IC3003	AD817AR	IC	1	
IC3004	AN77L05M	IC	1	
IC3005	CXD1176Q	IC	1	
IC3006	XC62DN5002P	IC	1	
IC3007, 08	AN77L05M	IC	2	
IC3009	TC7W125FU	IC	1	
IC3010	TC7W04FU	IC	1	
IC3011	TC7S00FU	IC	1	
IC3201	XC62AP5002P	IC	1	
IC3202	MC14053BDT	IC	1	
IC3203	NJM78L09UA	IC	1	
IC3204	AN3296S	IC	1	
IC3205	MM74HC221AM	IC	1	
IC3206	AN91A12S	IC	1	
IC3207	TC7S08F	IC	1	
IC3301	AN77L08M	IC	1	
IC3302, 03	NJM1496V	IC	2	
IC3304, 05	NJM2534V	IC	2	
IC3306	TC7S04FU	IC	1	
IC3501	MN53015VZW	IC	1	
IC3601	LT1228CS8	IC	1	
IC3603	AN77L05M	IC	1	
IC3604	TVHC541FT	IC	1	
IC3605	CXD1176Q	IC	1	
IC3606	NJM4556AM	IC	1	
IC3701	TC7S04FU	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3702	TC7S32FU	IC	1	
IC3703, 04	LT1228CS8	IC	2	
IC3705, 06	AN77L05M	IC	2	
IC3707, 08	TVHC541FT	IC	2	
IC3709	NJM4556AM	IC	1	
IC3710, 11	MB40558PF	IC	2	
IC3712	NJM4556AM	IC	1	
IC7201	XC62AP5002P	IC	1	
IC7202	NJM78L09UA	IC	1	
IC7203	AN3296S	IC	1	
IC7204	AN91A12S	IC	1	
IC7205	TC7S08F	IC	1	
IC7207	MM74HC221AM	IC	1	
IC7501	MN53015VZW	IC	1	
IC40601	TA75W58FU	IC	1	
IC40602	TVHC244FT	IC	1	
IC40603	AK4503VF	IC	1	
IC40605	TA75W58FU	IC	1	
IC40606	XC62AP3002P	IC	1	
IC40607	NJM78L05UA	IC	1	
IC40608	NJM79L05UA	IC	1	
IC40609-11	TC4W53FU	IC	3	
IC40612	TA75W58FU	IC	1	
IC41001-04	TA75W58FU	IC	4	
IC41101	AN77L05M	IC	1	
IC41102	AK4320VM	IC	1	
IC41103	TVHT541FT	IC	1	
IC41104	TA75W58FU	IC	1	
IC41106, 07	TC4W53FU	IC	2	
IC41201	TVHT541FT	IC	1	
IC41202	AN77L05M	IC	1	
IC41203	AK4320VM	IC	1	
IC41204	TC4W53FU	IC	1	
IC41205	TA75W58FU	IC	1	
IC41206	TC4W53FU	IC	1	
IC45601	TA75W58FU	IC	1	
IC45602	TVHC244FT	IC	1	
IC45603	AK4503VF	IC	1	
IC45605	TA75W58FU	IC	1	
IC45606	XC62AP3002P	IC	1	
IC45607	NJM78L05UA	IC	1	
IC45608	NJM79L05UA	IC	1	
IC45609-11	TC4W53FU	IC	3	
IC45612	TA75W58FU	IC	1	
IC46001-04	TA75W58FU	IC	4	
L3001-03	VLQ0319K101	COIL	100UH	3
L3005	VLQ0319K470	COIL	47UH	1
L3008	VLQ0426J180	COIL	18UH	1
L3009	VLQ0426J220	COIL	22UH	1
L3010	VLQ0426J180	COIL	18UH	1
L3011	VLQ0426J220	COIL	22UH	1
L3012	VLQ0426J5R6	COIL	5. 6UH	1
L3201	VLQ0133J391	COIL	390UH	1
L3301, 02	VLQ0319K101	COIL	100UH	2
L3303, 04	VLQ0426J680	COIL	68UH	2
L3601	VLQ0426J180	COIL	18UH	1
L3602	VLQ0319K101	COIL	100UH	1
L3703	VLQ0319K101	COIL	100UH	1
L7201	VLQ0133J391	COIL	390UH	1
L41101	VLQ0163J100	COIL	10UH	1
L41201	VLQ0163J100	COIL	10UH	1
P1, P2	VJS3791B050	CONNECTOR (FEMALE)		2
P3, P4	VJS3791D040	CONNECTOR (FEMALE)		2
P5	VJS3791D010	CONNECTOR (FEMALE)		1
Q3001	2SB1218A-R	TRANSISTOR		1
Q3002	XN4601	TRANSISTOR-RESISTOR		1
Q3003	2SC3930-B	TRANSISTOR		1
Q3004	2SD1819A-R	TRANSISTOR		1
Q3005	2SC3930-B	TRANSISTOR		1
Q3006, 07	2SB1218A-R	TRANSISTOR		2
Q3008	2SC3930-B	TRANSISTOR		1
Q3009, 10	2SB1218A-R	TRANSISTOR		2



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3201	2SD1819A-R	TRANSISTOR	1	
Q3202	XN4501	TRANSISTOR-RESISTOR	1	
Q3203	2SD1819A-R	TRANSISTOR	1	
Q3204	2SA1532-B	TRANSISTOR	1	
Q3205, 06	2SD1819A-R	TRANSISTOR	2	
Q3301, 02	XN4601	TRANSISTOR-RESISTOR	2	
Q3303-06	2SD1819A-R	TRANSISTOR	4	
Q3307-10	2SB1218A-R	TRANSISTOR	4	
Q3311, 12	2SD1819A-R	TRANSISTOR	2	
Q3313, 14	2SA1532-B	TRANSISTOR	2	
Q3315, 16	2SB1218A-R	TRANSISTOR	2	
Q3601	2SA1532-B	TRANSISTOR	1	
Q3602	2SD1979	TRANSISTOR	1	
Q3701	2SA1532-B	TRANSISTOR	1	
Q3702, 03	2SD1979	TRANSISTOR	2	
Q3704	2SD1819A-R	TRANSISTOR	1	
Q7201	2SD1819A-R	TRANSISTOR	1	
Q7202	XN4501	TRANSISTOR-RESISTOR	1	
Q40601	2SB1219A-R	TRANSISTOR	1	
Q40602	2SD1979	TRANSISTOR	1	
Q40603	2SK198-R	TRANSISTOR	1	
Q41001, 02	2SD602A-R	TRANSISTOR	2	
Q41003, 04	2SB710A-R	TRANSISTOR	2	
Q41005	2SD874A-R	TRANSISTOR	1	
Q41006	2SB766A-R	TRANSISTOR	1	
Q41007	2SD874A-R	TRANSISTOR	1	
Q41008, 09	2SB766A-R	TRANSISTOR	2	
Q41010, 11	2SD874A-R	TRANSISTOR	2	
Q41012	2SB766A-R	TRANSISTOR	1	
Q41101	2SD1979	TRANSISTOR	1	
Q41103	2SK198-R	TRANSISTOR	1	
Q41201	2SK198-R	TRANSISTOR	1	
Q41202	2SD1979	TRANSISTOR	1	
Q45601	2SB1219A-R	TRANSISTOR	1	
Q45602	2SD1979	TRANSISTOR	1	
Q45603	2SK198-R	TRANSISTOR	1	
Q46001, 02	2SD602A-R	TRANSISTOR	2	
Q46003, 04	2SB710A-R	TRANSISTOR	2	
Q46005	2SD874A-R	TRANSISTOR	1	
Q46006	2SB766A-R	TRANSISTOR	1	
Q46007	2SD874A-R	TRANSISTOR	1	
Q46008	2SB766A-R	TRANSISTOR	1	
Q46009	2SD874A-R	TRANSISTOR	1	
Q46010	2SB766A-R	TRANSISTOR	1	
Q46011	2SD874A-R	TRANSISTOR	1	
Q46012	2SB766A-R	TRANSISTOR	1	
QR3001	UN5213	TRANSISTOR-RESISTOR	1	
QR3301, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR40601	UN5213	TRANSISTOR-RESISTOR	1	
QR41101, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR41104	UN5113	TRANSISTOR-RESISTOR	1	
QR41201, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR41203	UN5113	TRANSISTOR-RESISTOR	1	
QR45601	UN5213	TRANSISTOR-RESISTOR	1	
R3001	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3002	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3003	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3004	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3005	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3006	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R3007	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3010	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3011	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3012	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3014	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3015	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3017	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3019	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3020	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3021, 22	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3023	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3024	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3026	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3027-29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R3031	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3032	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R3033	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R3034	ERJ3RED270	M. RESISTOR CH 1/16W 27	1	
R3035	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3036	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3037	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3038	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3039	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3040	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3041	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R3042	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3044	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3046	VRE006610102	M. RESISTOR CH 1/10W 1K	1	
R3047	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3048	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3049	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ6RBD221	M. RESISTOR CH 1/10W 220	1	
R3051	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3052	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3053	ERJ6RBD221	M. RESISTOR CH 1/10W 220	1	
R3054	ERJ3RED750	M. RESISTOR CH 1/16W 75	1	
R3057	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3058	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3059	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R3060	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R3061	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3062	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3063	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R3064	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R3065	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3066	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3068	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R3069	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R3070	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3071, 72	ERJ3RBD681	M. RESISTOR CH 1/16W 680	2	
R3073	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3077	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3082	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3084	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3086	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3087, 88	ERJ3RBD681	M. RESISTOR CH 1/16W 680	2	
R3089, 90	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3091	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3092	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3095, 96	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R3098, 99	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3100	VRE006622102	V. RESISTOR CH 1/10W 1K	1	
R3101	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3102	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3103	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3105	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3201	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3202	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3203	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R3204	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R3205	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R3206	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3207	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3208	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R3209	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R3210	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3211	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3212	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3213	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3214	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R3215	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3216	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3217	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3218	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R3219	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3220-22	ERJ3RED470	M. RESISTOR CH 1/16W 47	3	
R3223	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R3224	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3225, 26	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	2	
R3227	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R3228	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R3229	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R3230-32	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R3233	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3234	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3236	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3238	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3239	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R3240	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3241	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3242	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3243	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3244	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3245	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3246	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3301	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3302, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3304-07	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R3308, 09	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	2	
R3310, 11	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3312	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R3313	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3314, 15	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R3316, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3318, 19	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	2	
R3320, 21	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	2	
R3322, 23	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3324-27	ERJ3RBD101	M. RESISTOR CH 1/16W 100	4	
R3328, 29	ERJ3RBD821	M. RESISTOR CH 1/16W 820	2	
R3330, 31	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R3332, 33	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3334, 35	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3336, 37	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	2	
R3338, 39	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R3340	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3341	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3342	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3343	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3344, 45	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R3346-49	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R3350-53	ERJ3RED470	M. RESISTOR CH 1/16W 47	4	
R3354, 55	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3356-59	ERJ3RBD681	M. RESISTOR CH 1/16W 680	4	
R3360-63	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R3364	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R3365	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R3366, 67	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3368, 69	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3370, 71	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3372	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3501, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3503	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3504, 05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3506	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3508	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3509	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3601	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3604, 05	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R3606	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R3608	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R3609	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R3610	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3614	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3615	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R3616	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3617	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3619	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3620	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R3621	ERJ3RED750	M. RESISTOR CH 1/16W 75	1	
R3622	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3626	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3627	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3628	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3629	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3630-37	ERJ3RBD101	M. RESISTOR CH 1/16W 100	8	
R3638	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3701	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3703, 04	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R3705, 06	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R3709, 10	ERJ3RBD821	M. RESISTOR CH 1/16W 820	2	
R3711	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3714, 15	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R3716, 17	ERJ3RBD221	M. RESISTOR CH 1/16W 220	2	
R3718, 19	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3722, 23	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	2	
R3724, 25	ERJ3RED750	M. RESISTOR CH 1/16W 75	2	
R3726	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R3727	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3729	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R3730	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3734, 35	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R3736	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3737	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3738	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3739	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3740, 41	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3742	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3743	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3744	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3745	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3746-61	ERJ3RBD101	M. RESISTOR CH 1/16W 100	16	
R3763	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3765	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3766	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3767	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3768-70	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R7201	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7202	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7203	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R7204	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7205	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R7206	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R7207	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7208	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R7209	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R7210	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7211	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7212	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R7213	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7214	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R7215	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R7216	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7218	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R7220	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7223	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R7224	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7228	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R7229	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R7230-32	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R7236	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7238	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7240	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7241	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R7243	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R7245	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7246	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7501-04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R7505, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7508	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R7509	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7510	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40602	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40603	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R40604	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40606	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40607	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R40608	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40609, 10	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R40611, 12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R40613	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R40614	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40618	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40619, 20	ERJ3RED100	M. RESISTOR CH 1/16W 10	2	
R40621-23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R40624	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40625	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40626	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40629	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40630	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R40632	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40633	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40634	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R40635	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R40636	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R40637	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40638	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40639	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40640	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R40641	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40642	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41001-04	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R41005	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R41006	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41007	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R41008	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41009, 10	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R41011-18	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	8	
R41019	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41020	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41021, 22	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R41023, 24	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R41025	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41026	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41028	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41031	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41051	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41052	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R41053	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41054	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R41055	ERJ3RED150	M. RESISTOR CH 1/16W 15	1	
R41056	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R41057	ERJ3RED150	M. RESISTOR CH 1/16W 15	1	
R41058	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R41059-62	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R41063-66	ERJ3RBD561	M. RESISTOR CH 1/16W 560	4	
R41067-70	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R41071, 72	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41073	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
R41074	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R41075	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
R41076-79	ERJ14YJ100	M. RESISTOR CH 1/4W 10	4	
R41080, 81	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R41082	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R41083, 84	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R41085, 86	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R41087	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R41088, 89	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R41090	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R41091, 92	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R41104	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41106-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R41109-12	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
R41113	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41115	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R41117	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R41119, 20	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R41122	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R41124	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41126	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41128	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R41130	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R41132	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R41134	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R41136	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41138	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41139	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R41140	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41144	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R41146	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41148	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41150	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R41152	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R41153	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41156	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R41157	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R41158	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R41159	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41160-62	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R41163	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41204	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41206-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R41209-12	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
R41213	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41215	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R41217	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R41219, 20	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R41221	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R41222	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41224	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R41225	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R41226	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41227	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R41228	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41229	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R41230, 31	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R41232	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R41233	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R41234	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R41235	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R41236	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41237	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41238	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R41239	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41240	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R41241	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41242	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41243	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R41244, 45	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R41246	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45602	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45603	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R45604	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45606	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45607	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R45608	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45609, 10	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R45611, 12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R45613	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R45614	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45618	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45619, 20	ERJ3RED100	M. RESISTOR CH 1/16W 10	2	
R45621-23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R45624	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45625	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45626	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45629	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R45630	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R45632	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45633	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R45634	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R45635, 36	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	2	
R45637	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45638	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45639	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R45640	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R45641	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45642	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R46001-04	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R46005	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R46006	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R46007	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R46008	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R46009, 10	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R46011-18	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	8	
R46019	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R46020	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46021, 22	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R46023, 24	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R46025	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R46026	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46028	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46031	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46051	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46052	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R46053	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46054	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R46055	ERJ3RED150	M. RESISTOR CH 1/16W 15	1	
R46056	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R46057	ERJ3RED150	M. RESISTOR CH 1/16W 15	1	
R46058	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R46059-62	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R46063-66	ERJ3RBD561	M. RESISTOR CH 1/16W 560	4	
R46067-70	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R46071, 72	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R46073, 74	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R46075	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R46076, 77	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R46078	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R46079, 80	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R46081, 82	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R46083	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R46084, 85	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R46086-89	ERJ14YJ100	M. RESISTOR CH 1/4W 10	4	
R46090	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R46091, 92	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
RY41001-04	AQV212SX	IC	4	
RY46001-04	AQV212SX	IC	4	
TG3001, 02	EYF6CU	TEST POINT	2	
TG3301	EYF6CU	TEST POINT	1	
TG40601	EYF6CU	TEST POINT	1	
TG41105	EYF6CU	TEST POINT	1	
TG41204	EYF6CU	TEST POINT	1	
TG45601	EYF6CU	TEST POINT	1	
TP3201	EYF6CU	TEST POINT	1	
TP3501	EYF6CU	TEST POINT	1	
TP3601	EYF6CU	TEST POINT	1	
TP3701, 02	EYF6CU	TEST POINT	2	
TP7201	EYF6CU	TEST POINT	1	
TP7501	EYF6CU	TEST POINT	1	
TP40601, 02	EYF6CU	TEST POINT	2	
TP41101-03	EYF6CU	TEST POINT	3	
TP41201-03	EYF6CU	TEST POINT	3	
TP45601, 02	EYF6CU	TEST POINT	2	
VR3002	EVM7JGA00B14	V. RESISTOR 10K	1	
VR3003	EVM7JGA00B52	V. RESISTOR 500	1	
VR3301, 02	EVM7JGA00B23	V. RESISTOR 2K	2	
VR3305, 06	EVM7JGA00B13	V. RESISTOR 1K	2	
VR3601	EVM7JGA00B22	V. RESISTOR 200	1	
VR3602	EVM7JGA00B53	V. RESISTOR 5K	1	
VR3701, 02	EVM7JGA00B22	V. RESISTOR 200	2	
VR3703, 04	EVM7JGA00B53	V. RESISTOR 5K	2	
VR41001, 02	EVM7JGA00B52	V. RESISTOR 500	2	
VR41101	EVM7JGA00B14	V. RESISTOR 10K	1	
VR41201	EVM7JGA00B14	V. RESISTOR 10K	1	
VR46001, 02	EVM7JGA00B52	V. RESISTOR 500	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E30	VEP85182A	RF AMP 1 P.C. BOARD	1	(RTL)
C51001, 02	EEVHB1V100	E. CAPACITOR 35V 10U	2	
C51003, 04	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51005-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C51009, 10	EEVHB1V100	E. CAPACITOR 35V 10U	2	
C51011, 12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C51013, 14	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51016, 17	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51018	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C51019-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C51025, 26	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51027, 28	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C51029, 30	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51032, 33	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51034-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C51101	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51103	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C51104	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C51105	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C51106, 07	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C51111	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51113	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C51114	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C51115	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C51116, 17	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C51121	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51123	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C51124	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C51125	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C51126, 27	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C51131	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51133	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C51134	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C51135	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C51136, 37	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C51151, 52	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C51161, 62	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C51171	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C51172	EEVHB0J101	E. CAPACITOR 6.3V 100U	1	
C51181-85	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C51201, 02	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51203-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C51207	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C51208	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C51209	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51211	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51212	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C51213	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C51214-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C51231	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C51232-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C51238	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51239	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51240	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51251	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C51252-57	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C51258	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51259	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51260	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51301, 02	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51303-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C51307	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C51308	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C51309	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51311	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51312	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C51313	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C51314, 15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C51331	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C51332-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C51338	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C51339	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51340	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51351	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C51352-57	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C51358	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51359	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51360	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51401-08	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	8	
C51409, 10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51411, 12	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C51413, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51415-18	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C51419	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51420, 21	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51422-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51428	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C51429-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51432	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51433	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C51434	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C51435, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51437	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51441	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51443	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51445-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C51448	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C51449	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51450	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51451	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51452	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51453	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C51454, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51456	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C51457	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51458	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51459-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C51463	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51464	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51465	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51466	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51467	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51468, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C51470	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51471	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51472	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51474	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51475	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51476	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51478	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51480, 81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51482, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51484, 85	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51486	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51487	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C51488	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C51489	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C51490	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C51501-08	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	8	
C51509, 10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51511, 12	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C51513, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51515-18	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C51519	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51520, 21	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51522-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51528	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C51529-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51532	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51533	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C51534	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C51535, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51537	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51541	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51543	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51545-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C51548	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C51549	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51550	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51551	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51552	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51553	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C51554, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51556	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C51557	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51558	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51559-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C51563	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51564	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51565	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51566	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51567	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51568, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C51570	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51571	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51572	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51574	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51575	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51576	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51578	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51580, 81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51582, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51584, 85	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51586	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51587	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C51588	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C51589	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C51590	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C51801-39	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	39	
C51841-43	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51846	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51851-53	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51861-63	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51871-78	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C51901-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
D51001, 02	MA701A	DIODE	2	
D51171	MA153	DIODE	1	
D51231, 32	MA142WK	DIODE	2	
D51251, 52	MA142WK	DIODE	2	
D51331, 32	MA142WK	DIODE	2	
D51351, 52	MA142WK	DIODE	2	
FL51001, 02	VLF0931	FILTER	2	
FL51003, 04	VLF1016A223	FILTER	2	
FL51005, 06	VLF0931	FILTER	2	
IC51001	XC62AP3002P	IC	1	
IC51002	LT1129CS8	IC	1	
IC51004	LT1129CS8	IC	1	
IC51005	LT1175CS8	IC	1	
IC51007	LT1175CS8	IC	1	
IC51101, 02	TVHC08FT	IC	2	
IC51103, 04	TVHC32FT	IC	2	
IC51105	TVHT04FT	IC	1	
IC51201	MC10H116M	IC	1	
IC51231, 32	TC4S69F	IC	2	
IC51251, 52	TC4S69F	IC	2	
IC51331, 32	TC4S69F	IC	2	
IC51351, 52	TC4S69F	IC	2	
IC51401, 02	UPC5102GS030	IC	2	
IC51441	MC1495D	IC	1	
IC51442	UPC1663G	IC	1	
IC51501, 02	UPC5102GS030	IC	2	
IC51541	MC1495D	IC	1	
IC51542	UPC1663G	IC	1	
IC51801	M62370GP	IC	1	
IC51802	NJM064V	IC	1	
IC51804-07	THC4053FT	IC	4	
IC51808	NJM064V	IC	1	
IC51810	NJM064V	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC51812-15	THC4053FT	IC	4	
IC51901	TC7W32FU	IC	1	
IC51902	TVHT74FT	IC	1	
IC51903	TC7W32FU	IC	1	
IC51904	TVHC32FT	IC	1	
IC51905-07	TVHT04FT	IC	3	
L51101, 02	VLQ0163J2R2	COIL 2.2UH	2	
L51111, 12	VLQ0163J2R2	COIL 2.2UH	2	
L51121, 22	VLQ0163J2R2	COIL 2.2UH	2	
L51131, 32	VLQ0163J2R2	COIL 2.2UH	2	
L51201, 02	VLQ0163J330	COIL 33UH	2	
L51301, 02	VLQ0163J330	COIL 33UH	2	
L51402	VLQ0163J1R0	COIL 1UH	1	
L51403, 04	VLQ0163J101	COIL 100UH	2	
L51441	VLQ0163JR68	COIL 0.68UH	1	
L51442	VLQ0163JR39	COIL 0.39UH	1	
L51443	VLQ0163JR33	COIL 0.33UH	1	
L51444	VLQ0163JR68	COIL 0.68UH	1	
L51445	VLQ0163JR39	COIL 0.39UH	1	
L51446	VLQ0163JR33	COIL 0.33UH	1	
L51447, 48	VLQ0163JR22	COIL 0.22UH	2	
L51449	VLQ0163JR68	COIL 0.68UH	1	
L51502	VLQ0163J1R0	COIL 1UH	1	
L51503, 04	VLQ0163J101	COIL 100UH	2	
L51541	VLQ0163JR68	COIL 0.68UH	1	
L51542	VLQ0163JR39	COIL 0.39UH	1	
L51543	VLQ0163JR33	COIL 0.33UH	1	
L51544	VLQ0163JR68	COIL 0.68UH	1	
L51545	VLQ0163JR39	COIL 0.39UH	1	
L51546	VLQ0163JR33	COIL 0.33UH	1	
L51547, 48	VLQ0163JR22	COIL 0.22UH	2	
L51549	VLQ0163JR68	COIL 0.68UH	1	
P51001	VJP4064L080	CONNECTOR (MALE)	1	
P51002	VJS3900C013	CONNECTOR (FEMALE)	1	
P51003	VJS3900A024	CONNECTOR (FEMALE)	1	
Q51001	2SB1114	TRANSISTOR	1	
Q51003	2SD1280-S	TRANSISTOR	1	
Q51004	2SB1218A-R	TRANSISTOR	1	
Q51101	2SB709A-R	TRANSISTOR	1	
Q51102, 03	2SC3735B35	TRANSISTOR	2	
Q51111	2SB709A-R	TRANSISTOR	1	
Q51112, 13	2SC3735B35	TRANSISTOR	2	
Q51121	2SB709A-R	TRANSISTOR	1	
Q51122, 23	2SC3735B35	TRANSISTOR	2	
Q51131	2SB709A-R	TRANSISTOR	1	
Q51132, 33	2SC3735B35	TRANSISTOR	2	
Q51171	2SB709A-R	TRANSISTOR	1	
Q51172	2SD601A-R	TRANSISTOR	1	
Q51201	2SC3935	TRANSISTOR	1	
Q51202	2SA1532-B	TRANSISTOR	1	
Q51203	2SK508K512	TRANSISTOR	1	
Q51204	2SC2954	TRANSISTOR	1	
Q51205	2SA1532-B	TRANSISTOR	1	
Q51206, 07	2SC2954	TRANSISTOR	2	
Q51208	2SK508K512	TRANSISTOR	1	
Q51209	2SC3935	TRANSISTOR	1	
Q51231	2SA1532-B	TRANSISTOR	1	
Q51232, 33	XN1504	TRANSISTOR-RESISTOR	2	
Q51234, 35	2SD1979	TRANSISTOR	2	
Q51251	2SA1532-B	TRANSISTOR	1	
Q51252, 53	XN1504	TRANSISTOR-RESISTOR	2	
Q51254, 55	2SD1979	TRANSISTOR	2	
Q51301	2SC3935	TRANSISTOR	1	
Q51302	2SA1532-B	TRANSISTOR	1	
Q51303	2SK508K512	TRANSISTOR	1	
Q51304	2SC2954	TRANSISTOR	1	
Q51305	2SA1532-B	TRANSISTOR	1	
Q51306, 07	2SC2954	TRANSISTOR	2	
Q51308	2SK508K512	TRANSISTOR	1	
Q51309	2SC3935	TRANSISTOR	1	
Q51331	2SA1532-B	TRANSISTOR	1	
Q51332, 33	XN1504	TRANSISTOR-RESISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q51334, 35	2SD1979	TRANSISTOR	2	
Q51351	2SA1532-B	TRANSISTOR	1	
Q51352, 53	XN1504	TRANSISTOR-RESISTOR	2	
Q51354, 55	2SD1979	TRANSISTOR	2	
Q51401-04	2SD1979	TRANSISTOR	4	
Q51405	2SC3930-B	TRANSISTOR	1	
Q51406	XN6537	TRANSISTOR-RESISTOR	1	
Q51407	2SC3930-B	TRANSISTOR	1	
Q51408	XN5531	TRANSISTOR-RESISTOR	1	
Q51409, 10	2SK508K512	TRANSISTOR	2	
Q51411, 12	2SC3930-B	TRANSISTOR	2	
Q51413, 14	2SD1979	TRANSISTOR	2	
Q51441	2SC3930-B	TRANSISTOR	1	
Q51442	XN5531	TRANSISTOR-RESISTOR	1	
Q51443-49	2SD1979	TRANSISTOR	7	
Q51450-52	2SC3930-B	TRANSISTOR	3	
Q51453	2SD1979	TRANSISTOR	1	
Q51454	2SC3930-B	TRANSISTOR	1	
Q51455	2SD1979	TRANSISTOR	1	
Q51456, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q51501-04	2SD1979	TRANSISTOR	4	
Q51505	2SC3930-B	TRANSISTOR	1	
Q51506	XN6537	TRANSISTOR-RESISTOR	1	
Q51507	2SC3930-B	TRANSISTOR	1	
Q51508	XN5531	TRANSISTOR-RESISTOR	1	
Q51509, 10	2SK508K512	TRANSISTOR	2	
Q51511, 12	2SC3930-B	TRANSISTOR	2	
Q51513, 14	2SD1979	TRANSISTOR	2	
Q51541	2SC3930-B	TRANSISTOR	1	
Q51542	XN5531	TRANSISTOR-RESISTOR	1	
Q51543-49	2SD1979	TRANSISTOR	7	
Q51550-52	2SC3930-B	TRANSISTOR	3	
Q51553	2SD1979	TRANSISTOR	1	
Q51554	2SC3930-B	TRANSISTOR	1	
Q51555	2SD1979	TRANSISTOR	1	
Q51556, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q51901-10	2SB1218A-R	TRANSISTOR	10	
QR51001	UN5213	TRANSISTOR-RESISTOR	1	
QR51101	UN5213	TRANSISTOR-RESISTOR	1	
QR51111	UN5213	TRANSISTOR-RESISTOR	1	
QR51121	UN5213	TRANSISTOR-RESISTOR	1	
QR51131	UN5213	TRANSISTOR-RESISTOR	1	
R51001	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R51002	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51005	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51006	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R51009	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R51041-44	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R51051-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R51101, 02	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R51103	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R51104	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51105	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51106	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51107	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R51108	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51109	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51110	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51111, 12	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R51113	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R51114	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51115	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51116	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51117	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R51118	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51119	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51120	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51121, 22	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R51123	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R51124	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51125	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51126	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51127	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R51128	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51129	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51130	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51131, 32	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R51133	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R51134	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51135	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51136	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51137	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R51138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51139	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51140	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51141	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51142	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51143	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51144	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51145	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51146	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51147	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51148	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51151-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R51155, 56	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R51158	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51161-64	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R51168	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51171	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51172	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R51173	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R51174, 75	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R51201	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51202, 03	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R51205, 06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R51207, 08	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R51209	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51210	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51211	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51212, 13	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R51214	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51215	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R51216, 17	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R51218	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51219	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51220	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R51221	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R51222	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R51223	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51224	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51225	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R51226	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51231, 32	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R51233	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51234-37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R51238, 39	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51240	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51241	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51242	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51243	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51251, 52	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R51253	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51254-57	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R51258, 59	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51260	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51261	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51262	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51263	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51301	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51302, 03	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R51305, 06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R51307, 08	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R51309	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51310	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51311	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51312, 13	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R51314	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51315	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R51316, 17	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R51318	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51319	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51320	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R51321	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R51322	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R51323	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51324	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51325	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R51326	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51331, 32	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R51333	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51334-37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R51338, 39	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51340	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51341	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51342	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51343	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51351, 52	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R51353	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51354-57	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R51358, 59	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51360	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51361	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51362	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51363	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51401-06	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	6	
R51407, 08	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R51409-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51412	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R51413	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R51414	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R51415	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R51416	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R51417	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51418, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R51420, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R51422, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R51424	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R51425	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R51426	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R51427	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R51428, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R51430	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51431	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51432, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R51434	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51435, 36	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R51437	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51439	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51440	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51441-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51444-46	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R51447-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51450	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51451, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51453	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51454	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51455, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51457, 58	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R51459-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R51463	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51464	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51465	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51466-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51469	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51470	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51471	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51472	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R51473	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51474	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51475, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R51477	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51478	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51479	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R51480	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51481	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51482, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R51484	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R51486	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51487	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R51488, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R51490, 91	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R51492-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51495	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51496	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51497	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51498	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51499	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51501-06	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	6	
R51507, 08	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R51509-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51512	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R51513	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R51514	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R51515	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R51516	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R51517	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51518, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R51520, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R51522, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R51524	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R51525	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R51526	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R51527	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R51528, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R51530	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51531	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51532, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R51534	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51535, 36	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R51537	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51539	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51540	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51541-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51544-46	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R51547-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51550	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51551, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51553	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51554	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51555, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51557, 58	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R51559-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R51563	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51564	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51565	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51566-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51569	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51570	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51571	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51572	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R51573	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51574	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51575, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R51577	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51578	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51579	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R51580	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51581	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51582, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R51584	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R51586	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51587	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R51588, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R51590, 91	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R51592-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51595	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51596	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51597	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R51598	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51599	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51801-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R51804-06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R51811, 12	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R51813	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R51814	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R51815	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R51816	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R51817-19	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	3	
R51821, 22	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R51823	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R51824	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R51825	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R51826	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R51827-29	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	3	
R51831	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R51832	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R51833, 34	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R51835	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R51836, 37	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R51838	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R51839	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R51851	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R51852	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R51853, 54	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R51855	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R51856, 57	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R51858	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R51859	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R51871-74	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R51901	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51906	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R51907	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51913	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51914-19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	6	
R51921, 22	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R51925-28	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	4	
R51929	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51930-33	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	4	
R51935	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R51936, 37	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R51938-41	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R51942, 43	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R51952-63	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	12	
R51965	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51966	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R51967	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
TG51201	EYF6CU	TEST POINT	1	
TP51201	EYF6CU	TEST POINT	1	
TP51301	EYF6CU	TEST POINT	1	
TP51401	EYF6CU	TEST POINT	1	
TP51501	EYF6CU	TEST POINT	1	
TP51901, 02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	VMP6226	P. C. BOARD HOLDER ANGLE	2	
	XYN3+K8	SCREW	2	
	XSB2-6FX	SCREW	2	
■ E31	VEP85183A	RF AMP 2 P. C. BOARD	1	(RTL)
C52001, 02	EEVHB1V100	E. CAPACITOR 35V 10U	2	
C52003, 04	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52005-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C52009, 10	EEVHB1V100	E. CAPACITOR 35V 10U	2	
C52011, 12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C52013, 14	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52015	ECST1CC226Z	T. CAPACITOR CH 16V 22U	1	
C52016, 17	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52018	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C52019-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C52025, 26	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52027, 28	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C52029, 30	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52031	ECST1CC226Z	T. CAPACITOR CH 16V 22U	1	
C52032, 33	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52034-38	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C52101	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52103	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C52104	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C52105	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C52106, 07	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C52111	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52113	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C52114	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C52115	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C52116, 17	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C52121	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52123	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C52124	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C52125	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C52126, 27	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C52131	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52133	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C52134	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C52135	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C52136, 37	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C52151, 52	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C52161, 62	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C52171	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C52172	EEVHB0J101	E. CAPACITOR 6.3V 100U	1	
C52181-85	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C52201, 02	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	2	
C52203-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C52207	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C52208	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C52209	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52211	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52212	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C52213	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C52214-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52231	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C52232-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C52238	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52239	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52240	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52251	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C52252-57	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C52258	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52259	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52260	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52301, 02	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	2	
C52303-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C52307	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C52308	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C52309	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52311	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52312	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C52313	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C52314, 15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C52331	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C52332-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C52338	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52339	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52340	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52351	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C52352-57	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C52358	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52359	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52360	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52401-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C52405	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52406	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C52407	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52408, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52422-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52428	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52429-31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52432	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52433	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C52434	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C52435, 36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C52437	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52441	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52443	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52445-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52448	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52449	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52450	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52451	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52452	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52453	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C52454, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52456	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C52457	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52458	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52459-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52463	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52464	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52465	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52466	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52467	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52468, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C52470	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52471	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52472	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52474	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52475	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52476	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52478	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52480, 81	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C52482, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52484, 85	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C52486	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52487	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C52488	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52489	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52490	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C52501-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C52505	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52506	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C52507	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52508, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52522-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52528	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52529-31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52532	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52533	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C52534	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C52535, 36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C52537	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52541	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52543	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52545-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52548	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52549	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52550	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52551	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52552	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52553	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C52554, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52556	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C52557	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52558	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52559-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52563	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C52564	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52565	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52566	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52567	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52568, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C52570	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52571	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52572	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52574	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52575	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52576	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52578	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52580, 81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52582, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52584, 85	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52586	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52587	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C52588	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52589	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52590	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C52601-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C52605	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52606	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C52607	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52608, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52622-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52625	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C52628	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52629-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52632	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52633	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C52634	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C52635, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52637	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52641	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52643	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52645-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52648	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52649	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52650	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52651	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52652	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52653	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C52654, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52656	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C52657	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52658	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52659-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52663	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52664	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52665	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52666	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52667	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52668, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C52670	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52671	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52672	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52674	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52675	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52676	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52678	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52680, 81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52682, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52684, 85	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52686	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52687	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C52688	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52689	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52690	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C52701-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C52705	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52706	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C52707	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52708, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52722-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C52725	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C52728	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52729-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52732	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52733	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C52734	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C52735, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52737	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52741	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52743	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52745-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52748	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52749	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52750	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52751	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52752	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52753	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C52754, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52756	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C52757	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52758	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52759-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52763	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52764	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52765	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52766	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52767	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52768, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C52770	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52771	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52772	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52774	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52775	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52776	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52778	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52780, 81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52782, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52784, 85	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52786	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52787	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C52788	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52789	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52790	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C52801-39	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	39	
C52841-43	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52846	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52851-53	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52856-58	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52861-63	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52866-68	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52871-76	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C52901-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
D52001, 02	MA701A	DIODE	2	
D52171	MA153	DIODE	1	
D52231, 32	MA142WK	DIODE	2	
D52251, 52	MA142WK	DIODE	2	
D52331, 32	MA142WK	DIODE	2	
D52351, 52	MA142WK	DIODE	2	
FL52001, 02	VLF0931	FILTER	2	
FL52003, 04	VLF1016A223	FILTER	2	
FL52005, 06	VLF0931	FILTER	2	
IC52001	XC62AP3002P	IC	1	
IC52002-04	LT1129CS8	IC	3	
IC52005-07	LT1175CS8	IC	3	
IC52101, 02	TVHC08FT	IC	2	
IC52103, 04	TVHC32FT	IC	2	
IC52105	TVHT04FT	IC	1	
IC52201	MC10H116M	IC	1	
IC52231, 32	TC4S69F	IC	2	
IC52251, 52	TC4S69F	IC	2	
IC52331, 32	TC4S69F	IC	2	
IC52351, 52	TC4S69F	IC	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC52401	UPC5102GS030	IC	1	
IC52441	MC1495D	IC	1	
IC52442	UPC1663G	IC	1	
IC52501	UPC5102GS030	IC	1	
IC52541	MC1495D	IC	1	
IC52542	UPC1663G	IC	1	
IC52601	UPC5102GS030	IC	1	
IC52641	MC1495D	IC	1	
IC52642	UPC1663G	IC	1	
IC52701	UPC5102GS030	IC	1	
IC52741	MC1495D	IC	1	
IC52742	UPC1663G	IC	1	
IC52801	M623706P	IC	1	
IC52802	NJM064V	IC	1	
IC52804-07	THC4053FT	IC	4	
IC52808-11	NJM064V	IC	4	
IC52814, 15	THC4053FT	IC	2	
IC52901	TC7S32FU	IC	1	
IC52902	TVHT74FT	IC	1	
IC52903	TC7W32FU	IC	1	
IC52904	TVHC32FT	IC	1	
IC52905-07	TVHT04FT	IC	3	
L52101, 02	VLQ0163J2R2	COIL 2. 2UH	2	
L52111, 12	VLQ0163J2R2	COIL 2. 2UH	2	
L52121, 22	VLQ0163J2R2	COIL 2. 2UH	2	
L52131, 32	VLQ0163J2R2	COIL 2. 2UH	2	
L52201, 02	VLQ0163J330	COIL 33UH	2	
L52301, 02	VLQ0163J330	COIL 33UH	2	
L52402	VLQ0163J1R0	COIL 1UH	1	
L52403, 04	VLQ0163J101	COIL 100UH	2	
L52441	VLQ0163JR68	COIL 0. 68UH	1	
L52442	VLQ0163JR39	COIL 0. 39UH	1	
L52443	VLQ0163JR33	COIL 0. 33UH	1	
L52444	VLQ0163JR68	COIL 0. 68UH	1	
L52445	VLQ0163JR39	COIL 0. 39UH	1	
L52446	VLQ0163JR33	COIL 0. 33UH	1	
L52447, 48	VLQ0163JR22	COIL 0. 22UH	2	
L52449	VLQ0163JR68	COIL 0. 68UH	1	
L52502	VLQ0163J1R0	COIL 1UH	1	
L52503, 04	VLQ0163J101	COIL 100UH	2	
L52541	VLQ0163JR68	COIL 0. 68UH	1	
L52542	VLQ0163JR39	COIL 0. 39UH	1	
L52543	VLQ0163JR33	COIL 0. 33UH	1	
L52544	VLQ0163JR68	COIL 0. 68UH	1	
L52545	VLQ0163JR39	COIL 0. 39UH	1	
L52546	VLQ0163JR33	COIL 0. 33UH	1	
L52547, 48	VLQ0163JR22	COIL 0. 22UH	2	
L52549	VLQ0163JR68	COIL 0. 68UH	1	
L52601	VLQ0163JR68	COIL 0. 68UH	1	
L52602	VLQ0163J1R0	COIL 1UH	1	
L52603, 04	VLQ0163J101	COIL 100UH	2	
L52641	VLQ0163JR68	COIL 0. 68UH	1	
L52642	VLQ0163JR39	COIL 0. 39UH	1	
L52643	VLQ0163JR33	COIL 0. 33UH	1	
L52644	VLQ0163JR68	COIL 0. 68UH	1	
L52645	VLQ0163JR39	COIL 0. 39UH	1	
L52646	VLQ0163JR33	COIL 0. 33UH	1	
L52647, 48	VLQ0163JR22	COIL 0. 22UH	2	
L52649	VLQ0163JR68	COIL 0. 68UH	1	
L52701	VLQ0163JR68	COIL 0. 68UH	1	
L52702	VLQ0163J1R0	COIL 1UH	1	
L52703, 04	VLQ0163J101	COIL 100UH	2	
L52741	VLQ0163JR68	COIL 0. 68UH	1	
L52742	VLQ0163JR39	COIL 0. 39UH	1	
L52743	VLQ0163JR33	COIL 0. 33UH	1	
L52744	VLQ0163JR68	COIL 0. 68UH	1	
L52745	VLQ0163JR39	COIL 0. 39UH	1	
L52746	VLQ0163JR33	COIL 0. 33UH	1	
L52747, 48	VLQ0163JR22	COIL 0. 22UH	2	
L52749	VLQ0163JR68	COIL 0. 68UH	1	
P52001	VJP4064L080	CONNECTOR (MALE)	1	
P52002	VJS3900C013	CONNECTOR (FEMALE)	1	
P52003	VJS3900A024	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P52004	VJP2278	CONNECTOR (MALE)	1	
P52005	VJP3950A009	CONNECTOR (MALE)	1	
P52006	VJP2278	CONNECTOR (MALE)	1	
P52007	VJP3950A009	CONNECTOR (MALE)	1	
052001, 02	2SB1114	TRANSISTOR	2	
052003	2SD1280-S	TRANSISTOR	1	
052004	2SB1218A-R	TRANSISTOR	1	
052005	2SD1280-S	TRANSISTOR	1	
052006	2SB1218A-R	TRANSISTOR	1	
052101	2SB709A-R	TRANSISTOR	1	
052102, 03	2SC3735B35	TRANSISTOR	2	
052111	2SB709A-R	TRANSISTOR	1	
052112, 13	2SC3735B35	TRANSISTOR	2	
052121	2SB709A-R	TRANSISTOR	1	
052122, 23	2SC3735B35	TRANSISTOR	2	
052131	2SB709A-R	TRANSISTOR	1	
052132, 33	2SC3735B35	TRANSISTOR	2	
052171	2SB709A-R	TRANSISTOR	1	
052172	2SD601A-R	TRANSISTOR	1	
052201	2SC3935	TRANSISTOR	1	
052202	2SA1532-B	TRANSISTOR	1	
052203	2SK508K512	TRANSISTOR	1	
052204	2SC2954	TRANSISTOR	1	
052205	2SA1532-B	TRANSISTOR	1	
052206, 07	2SC2954	TRANSISTOR	2	
052208	2SK508K512	TRANSISTOR	1	
052209	2SC3935	TRANSISTOR	1	
052231	2SA1532-B	TRANSISTOR	1	
052232, 33	XN1504	TRANSISTOR-RESISTOR	2	
052234, 35	2SD1979	TRANSISTOR	2	
052251	2SA1532-B	TRANSISTOR	1	
052252, 53	XN1504	TRANSISTOR-RESISTOR	2	
052254, 55	2SD1979	TRANSISTOR	2	
052301	2SC3935	TRANSISTOR	1	
052302	2SA1532-B	TRANSISTOR	1	
052303	2SK508K512	TRANSISTOR	1	
052304	2SC2954	TRANSISTOR	1	
052305	2SA1532-B	TRANSISTOR	1	
052306, 07	2SC2954	TRANSISTOR	2	
052308	2SK508K512	TRANSISTOR	1	
052309	2SC3935	TRANSISTOR	1	
052331	2SA1532-B	TRANSISTOR	1	
052332, 33	XN1504	TRANSISTOR-RESISTOR	2	
052334, 35	2SD1979	TRANSISTOR	2	
052351	2SA1532-B	TRANSISTOR	1	
052352, 53	XN1504	TRANSISTOR-RESISTOR	2	
052354, 55	2SD1979	TRANSISTOR	2	
052405	2SC3930-B	TRANSISTOR	1	
052406	XN6537	TRANSISTOR-RESISTOR	1	
052407	2SC3930-B	TRANSISTOR	1	
052408	XN5531	TRANSISTOR-RESISTOR	1	
052409, 10	2SK508K512	TRANSISTOR	2	
052411, 12	2SC3930-B	TRANSISTOR	2	
052441	2SC3930-B	TRANSISTOR	1	
052442	XN5531	TRANSISTOR-RESISTOR	1	
052443-49	2SD1979	TRANSISTOR	7	
052450-52	2SC3930-B	TRANSISTOR	3	
052453	2SD1979	TRANSISTOR	1	
052454	2SC3930-B	TRANSISTOR	1	
052455	2SD1979	TRANSISTOR	1	
052456, 57	XN1504	TRANSISTOR-RESISTOR	2	
052505	2SC3930-B	TRANSISTOR	1	
052506	XN6537	TRANSISTOR-RESISTOR	1	
052507	2SC3930-B	TRANSISTOR	1	
052508	XN5531	TRANSISTOR-RESISTOR	1	
052509, 10	2SK508K512	TRANSISTOR	2	
052511, 12	2SC3930-B	TRANSISTOR	2	
052541	2SC3930-B	TRANSISTOR	1	
052542	XN5531	TRANSISTOR-RESISTOR	1	
052543-49	2SD1979	TRANSISTOR	7	
052550-52	2SC3930-B	TRANSISTOR	3	
052553	2SD1979	TRANSISTOR	1	
052554	2SC3930-B	TRANSISTOR	1	
052555	2SD1979	TRANSISTOR	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q52556, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q52605	2SC3930-B	TRANSISTOR	1	
Q52606	XN6537	TRANSISTOR-RESISTOR	1	
Q52607	2SC3930-B	TRANSISTOR	1	
Q52608	XN5531	TRANSISTOR-RESISTOR	1	
Q52609, 10	2SK508K512	TRANSISTOR	2	
Q52611, 12	2SC3930-B	TRANSISTOR	2	
Q52641	2SC3930-B	TRANSISTOR	1	
Q52642	XN5531	TRANSISTOR-RESISTOR	1	
Q52643-49	2SD1979	TRANSISTOR	7	
Q52650-52	2SC3930-B	TRANSISTOR	3	
Q52653	2SD1979	TRANSISTOR	1	
Q52654	2SC3930-B	TRANSISTOR	1	
Q52655	2SD1979	TRANSISTOR	1	
Q52656, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q52705	2SC3930-B	TRANSISTOR	1	
Q52706	XN6537	TRANSISTOR-RESISTOR	1	
Q52707	2SC3930-B	TRANSISTOR	1	
Q52708	XN5531	TRANSISTOR-RESISTOR	1	
Q52709, 10	2SK508K512	TRANSISTOR	2	
Q52711, 12	2SC3930-B	TRANSISTOR	2	
Q52741	2SC3930-B	TRANSISTOR	1	
Q52742	XN5531	TRANSISTOR-RESISTOR	1	
Q52743-49	2SD1979	TRANSISTOR	7	
Q52750-52	2SC3930-B	TRANSISTOR	3	
Q52753	2SD1979	TRANSISTOR	1	
Q52754	2SC3930-B	TRANSISTOR	1	
Q52755	2SD1979	TRANSISTOR	1	
Q52756, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q52902-04	2SB1218A-R	TRANSISTOR	3	
Q52906-08	2SB1218A-R	TRANSISTOR	3	
Q52910	2SB1218A-R	TRANSISTOR	1	
QR52001, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR52101	UN5213	TRANSISTOR-RESISTOR	1	
QR52111	UN5213	TRANSISTOR-RESISTOR	1	
QR52121	UN5213	TRANSISTOR-RESISTOR	1	
QR52131	UN5213	TRANSISTOR-RESISTOR	1	
R52001	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R52002	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52003	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R52004	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52005	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52006	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52007	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52008	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52009, 10	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R52041-44	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52051-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52061-64	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52071-74	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52101, 02	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R52103	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R52104	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52105	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52106	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52107	ERJ66EYG680	M. RESISTOR CH 1/10W 68	1	
R52108	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52109	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52110	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52111, 12	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R52113	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R52114	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52115	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52116	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52117	ERJ66EYG680	M. RESISTOR CH 1/10W 68	1	
R52118	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52119	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52120	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52121, 22	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R52123	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R52124	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52125	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52126	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52127	ERJ66EYG680	M. RESISTOR CH 1/10W 68	1	
R52128	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52129	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52130	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52131, 32	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R52133	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R52134	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52135	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52136	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52137	ERJ66EYG680	M. RESISTOR CH 1/10W 68	1	
R52138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52139	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52140	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52141	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52142	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52143	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52144	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52145	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52146	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52147	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52148	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52151-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52155, 56	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R52158	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52161-64	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52168	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52171	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52172	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R52173	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R52174, 75	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R52201	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52202, 03	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R52205, 06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52207, 08	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R52209	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52210	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52211	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52212, 13	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R52214	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52215	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R52216, 17	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52218	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52219	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52220	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R52221	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52222	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R52223	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52224	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52225	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R52226	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52231, 32	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R52233	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52234-37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R52238, 39	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52240	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52241	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52242	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52243	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52251, 52	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R52253	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52254-57	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R52258, 59	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52260	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52261	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52262	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52263	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52301	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52302, 03	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R52305, 06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52307, 08	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R52309	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52310	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52311	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52312, 13	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R52314	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52315	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R52316, 17	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52318	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52319	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52320	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R52321	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52322	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R52323	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52324	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52325	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R52326	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52331, 32	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R52333	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52334-37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R52338, 39	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52340	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52341	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52342	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52343	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52351, 52	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R52353	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52354-57	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R52358, 59	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52360	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52361	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52362	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52363	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52407, 08	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52409-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52412	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52413	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52414	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R52415	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52416	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52417	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52418, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52420, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52422, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52424	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52425	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R52426	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52427	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52428, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52430	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52431	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52432, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52434	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52437	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52439	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52440	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52441-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52444-46	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R52447-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52450	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52451, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52453	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52454	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52455, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52457, 58	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52459-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R52463	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52464	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52465	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52466-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52469	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52470	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52471	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52472	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52473	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52474	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52475, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R52477	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52478	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52479	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R52480	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52481	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52482, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52484	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R52486	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52487	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52488, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R52490, 91	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52492-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52495	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52496	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52497	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52498	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52499	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52507, 08	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52509-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52512	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52513	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52514	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R52515	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52516	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52517	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52518, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52520, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52522, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52524	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52525	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R52526	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52527	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52528, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52530	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52531	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52532, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52534	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52537	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52539	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52540	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52541-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52544-46	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R52547-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52550	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52551, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52553	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52554	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52555, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52557, 58	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52559-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R52563	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52564	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52565	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52566-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52569	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52570	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52571	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52572	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52573	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52574	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52575, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R52577	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52578	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52579	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R52580	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52581	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52582, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52584	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R52586	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52587	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52588, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R52590, 91	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52592-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52595	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52596	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52597	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52598	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52599	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52607, 08	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52609-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52612	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52613	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52614	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R52615	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52616	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52617	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52618, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52620, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52622, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52624	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52625	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R52626	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52627	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52628, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52630	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52631	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52632, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52634	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52637	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52639	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52640	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52641-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52644-46	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R52647-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52650	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52651, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52653	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52654	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52655, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52657, 58	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52659-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R52663	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52664	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52665	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52666-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52669	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52670	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52671	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52672	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52673	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52674	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52675, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R52677	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52678	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52679	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R52680	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52681	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52682, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52684	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R52686	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52687	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52688, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R52690, 91	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52692-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52695	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52696	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52697	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52698	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52699	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52707, 08	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52709-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52712	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52713	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52714	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R52715	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52716	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52717	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52718, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52720, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52722, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52724	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52725	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R52726	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52727	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52728, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52730	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52731	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52732, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52734	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52737	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52739	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52740	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52741-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52744-46	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R52747-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52750	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52751, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52753	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52754	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52755, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52757, 58	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52759-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R52763	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52764	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52765	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52766-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52769	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52770	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52771	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52772	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52773	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52774	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52775, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R52777	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52778	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52779	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R52780	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52781	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52782, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52784	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R52786	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52787	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52788, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R52790, 91	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R52792-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52795	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52796	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52797	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52798	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52799	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R52801-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R52804-06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R52811, 12	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52813	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R52814	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R52815	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52816	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R52817-19	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	3	
R52821, 22	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52823	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R52824	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R52825	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52826	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R52827-29	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	3	
R52831	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52832	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R52833, 34	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52835	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R52836, 37	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52838	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R52839	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R52841	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52842	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R52843, 44	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52845	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R52846, 47	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52848	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R52849	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R52851	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52852	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R52853, 54	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52855	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R52856, 57	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52858	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R52859	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R52861	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52862	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R52863, 64	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52865	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R52866, 67	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52868	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R52869	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R52871-74	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R52901	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52916-19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52921, 22	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R52926-28	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	3	
R52931-33	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	3	
R52936, 37	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R52938-41	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52942, 43	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R52952-63	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	12	
R52964	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R52965	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52966	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R52967	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
TG52201	EYF6CU	TEST POINT	1	
TP52201	EYF6CU	TEST POINT	1	
TP52301	EYF6CU	TEST POINT	1	
TP52401	EYF6CU	TEST POINT	1	
TP52501	EYF6CU	TEST POINT	1	
TP52601	EYF6CU	TEST POINT	1	
TP52701	EYF6CU	TEST POINT	1	
TP52901, 02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	VMP6226	P. C. BOARD HOLDER ANGLE	2	
	XYN3+K8	SCREW	2	
	XSB2+6FX	SCREW	2	
■ E32	VEP86290B	MAIN CONTROL P. C. BOARD	1 (RTL)	
C21102	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21103	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21104, 05	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C21106	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21107	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21108	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C21109	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C21110, 11	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C21112	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21113, 14	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C21115-22	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	8	
C21201-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C21205	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21206	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21209-12	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C21401	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21402	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C21403	ECKF1H391KB	C. CAPACITOR 50V 390P	1	
C21502	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21503	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21504, 05	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C21506	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21507	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21508	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C21509	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C21510, 11	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C21512	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21513, 14	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C21515-22	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	8	
C21601-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C21605	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21606	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21609-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C21801	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21802	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C21803	ECKF1H391KB	C. CAPACITOR 50V 390P	1	
C21901	ECHU1C104J	P. CAPACITOR 16V 0.1U	1	
C21902	EEVHB1H3R3	E. CAPACITOR 50V 3.3U	1	
C21903	ECUM1C334ZFN	C. CAPACITOR CH 16V 0.33U	1	
C21904-06	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C21907-10	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	4	
C21911-16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
G60001-04	VCK0152	C. CAPACITOR	4	
G60005, 06	EEVHB0J470	E. CAPACITOR 6.3V 47U	2	
G60007, 08	EEVHB1C470	E. CAPACITOR 16V 47U	2	
G60009	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
G60101, 02	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
G60103	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
G60104	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
G60105-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
G60109	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
G60110-24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	15	
G60201-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
G60300	VCK0152	C. CAPACITOR	1	
G60301	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
G60302	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
G60303, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
G60305	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
G60306	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
G60307	VCK0152	C. CAPACITOR	1	
G60308-10	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
G60311	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G60314	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
G60315	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
G60316	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G60317	VCK0152	C. CAPACITOR	1	
G60319	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
G60320	VCK0152	C. CAPACITOR	1	
G60321-23	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
G60324	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
G60325	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
G60326	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
G60327, 28	ECST1CX156Z	T. CAPACITOR CH 16V 15U	2	
G60329, 30	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
G60331	VCK0152	C. CAPACITOR	1	
G60332	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
G60401-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
G60501-03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
G60504	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
G60505	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G60506	ECUX1E105KBP	C. CAPACITOR CH 25V 1U	1	
G60507	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
G60508, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
G60510, 11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
G60602, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
G60604	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
G60605-17	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	13	
G60618-21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
G60701, 02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
G60703, 04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
G60801-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
G60809	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
G60810	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
G60901-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	7	
G62101, 02	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
G62103	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
G62104	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
G62105-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
G62110-24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	15	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C62125	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C62201-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C62300	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C62301	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C62302	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C62303	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C62304	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C62305-07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C62308	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C62309	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C62311	VCK0152	C. CAPACITOR	1	
C62312	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C62313	VCK0152	C. CAPACITOR	1	
C62314-16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C62317	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C62318	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C62319	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C62320, 21	ECST1CX156Z	T. CAPACITOR CH 16V 15U	2	
C62322, 23	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C62324	VCK0152	C. CAPACITOR	1	
C62325	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C62401-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C62501-04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C62505	EEVHBJ330	E. CAPACITOR 6.3V 33U	1	
C62506, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C62508	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C62602, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C62605-17	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	13	
C62618-21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C62701, 02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C62703, 04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C62801-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C62809	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C62810	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C62901-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	7	
C63001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65001-15	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	15	
C65016	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C65017	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65018-20	EEVHB1C470	E. CAPACITOR 16V 47U	3	
C65021	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C65022	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C65023	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C65024	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65025	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C65026	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65027	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C65028	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65101, 02	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C65103-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C65109, 10	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C65111	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65201, 02	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C65203-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	11	
C65301-15	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	15	
C65401-03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C65501	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
D21901-05	MA143	DIODE	5	
D60101	MA142K	DIODE	1	
D60300-02	MA157	DIODE	3	
D60402	MA143	DIODE	1	
D60501	MA142K	DIODE	1	
D60502-06	MA142WK	DIODE	5	
D60600-26	MA143	DIODE	27	
D60627	LN1251CAL	DIODE	1	
D60628	MA143	DIODE	1	
D62300	MA157	DIODE	1	
D62402	MA143	DIODE	1	
D62501-05	MA142WK	DIODE	5	
D62601-12	MA143	DIODE	12	
D62614-25	MA143	DIODE	12	
D62626	LN1251CAL	DIODE	1	
D62627	MA143	DIODE	1	
D65501, 02	M1MA152K	DIODE	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL60001-04	VLF1312	FILTER	4	
FL60301	VLF1016A223	FILTER	1	
FL62300	VLF1016A223	FILTER	1	
IC21102	MN1030F04K	IC	1	
IC21103, 04	TC7SHU04FU	IC	2	
IC21201	X9144L7T1100	IC	1	
IC21202	IDT71V321L5F	IC	1	
IC21203	TVHC14FT	IC	1	
IC21206, 07	TC7SH14FU	IC	2	
IC21401	XC62FP3302P	IC	1	
IC21502	MN1030F04K	IC	1	
IC21503, 04	TC7SHU04FU	IC	2	
IC21601	X9144L7T1100	IC	1	
IC21602	IDT71V321L5F	IC	1	
IC21603	TVHC541FT	IC	1	
IC21604	TVHC14FT	IC	1	
IC21606, 07	TC7SH14FU	IC	2	
IC21801	XC62FP3302P	IC	1	
IC21901	X9036L7V64	IC	1	
IC21902	TL7705CPSB	IC	1	
IC21903	S80830ANUP	IC	1	
IC21904	TVHC32FT	IC	1	
IC21905	TVHT541FT	IC	1	
IC60101	M32160F4UFP	IC	1	
IC60102	XC62FP3302M	IC	1	
IC60103	TVHC126FT	IC	1	
IC60104, 05	TC7SH04FU	IC	2	
IC60201	X9144L7T1144	IC	1	
IC60301	MN51040VPI	IC	1	
IC60302	TC7W32FU	IC	1	
IC60303	UPC393G2	IC	1	
IC60304	TA75W558FU	IC	1	
IC60305	NJM2068MD	IC	1	
IC60307	TA75W558FU	IC	1	
IC60308	XC62DN5002P	IC	1	
IC60401	TVHC14FT	IC	1	
IC60402	TVHC04FT	IC	1	
IC60403	UPC393G2	IC	1	
IC60404	TVHC14FT	IC	1	
IC60501	TVHC123FT	IC	1	
IC60502	TVHC08FT	IC	1	
IC60503, 04	MC14538BF	IC	2	
IC60505	TVHC32FT	IC	1	
IC60506	TVHC08FT	IC	1	
IC60601	TVHC541FT	IC	1	
IC60602, 03	TVHT541FT	IC	2	
IC60604	TC7W241FU	IC	1	
IC60701, 02	IDT71V124SAP	IC	2	
IC60801	TLCX245FT	IC	1	
IC60803-06	TVHC541FT	IC	4	
IC60807	TLCX32FT	IC	1	
IC60808	TVHC541FT	IC	1	
IC60809	TLCX04F	IC	1	
IC60901	LVX3245QSC	IC	1	
IC60902-04	TVHT541FT	IC	3	
IC60905	TVHC139FT	IC	1	
IC60906	TVHC32FT	IC	1	
IC62101	M32160F4UFP	IC	1	
IC62102	TC7SH04FU	IC	1	
IC62103	TVHC126FT	IC	1	
IC62104	TC7SH04FU	IC	1	
IC62105	XC62FP3302M	IC	1	
IC62201	X9144L7T1144	IC	1	
IC62301	MN51040VPI	IC	1	
IC62302	TC7W32FU	IC	1	
IC62304	XC62DN5002P	IC	1	
IC62305	NJM2068MD	IC	1	
IC62307	TA75W558FU	IC	1	
IC62401	TVHC14FT	IC	1	
IC62402	TVHC04FT	IC	1	
IC62403	UPC393G2	IC	1	
IC62404	TVHC14FT	IC	1	
IC62501	TVHC123FT	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC62502	TVHC08FT	IC	1	
IC62503	MC14538BF	IC	1	
IC62505	TVHC32FT	IC	1	
IC62506	TVHC08FT	IC	1	
IC62601	TVHC541FT	IC	1	
IC62602, 03	TVHT541FT	IC	2	
IC62604	TC7W241FU	IC	1	
IC62701, 02	IDT71V124SAP	IC	2	
IC62801	TLCX245FT	IC	1	
IC62803-06	TVHC541FT	IC	4	
IC62807	TLCX32FT	IC	1	
IC62808	TVHC541FT	IC	1	
IC62809	TLCX04F	IC	1	
IC62901	LVX3245QSC	IC	1	
IC62902-04	TVHT541FT	IC	3	
IC62905	TVHC139FT	IC	1	
IC62906	TVHC32FT	IC	1	
IC63001	IDT71V321L5F	IC	1	
IC65001	MBF8TA90PFTS	IC	1	
IC65002	D703003GC017	IC	1	
IC65003	STK14C88N45	IC	1	
IC65004	UPD720016C11	IC	1	
IC65005	TC7SH04FU	IC	1	
IC65006, 07	TVHC573FT	IC	2	
IC65008	TVHC04FT	IC	1	
IC65009	TVHC14FT	IC	1	
IC65010, 11	TVHC32FT	IC	2	
IC65012	TVHC393FT	IC	1	
IC65101, 02	IDT71321L55F	IC	2	
IC65103	TVHC138FT	IC	1	
IC65104	TVHC573FT	IC	1	
IC65105	TVHT541FT	IC	1	
IC65106	TVHC11FT	IC	1	
IC65107	TVHC245FT	IC	1	
IC65108	TVHC32FT	IC	1	
IC65109	TVHC541FT	IC	1	
IC65201	UPC33962	IC	1	
IC65202	TE7751	IC	1	
IC65203	TVHC04FT	IC	1	
IC65204, 05	TVHC11FT	IC	2	
IC65206	TVHC32FT	IC	1	
IC65207	MC14015BF	IC	1	
IC65208	MC14013BF	IC	1	
IC65209, 10	MC14516BF	IC	2	
IC65301, 02	ADM202JRN	IC	2	
IC65303, 04	SN75C1168NS	IC	2	
IC65305-07	TVHC126FT	IC	3	
IC65401	TVHC138FT	IC	1	
IC65402, 03	TVHC273FT	IC	2	
ID21102	VVVS13178E	IC	1	
ID21201	VVVS13304	IC	1	
ID21502	VVVS13178E	IC	1	
ID21601	VVVS13304	IC	1	
ID21901	VVVS13304	IC	1	
ID60101	VVVS13177D	IC	1	
ID60101 02	VVVS13336	IC	1	
ID60201	VVVS13304	IC	1	
ID62101	VVVS13177D	IC	1	
ID62101 02	VVVS13336	IC	1	
ID62201	VVVS13304	IC	1	
ID65001	VVVS13337E	IC	1	
IP500	X9144L7T100	IC	1	
L60101	VLP0155	COIL	1	
L60801-09	VLP0155	COIL	9	
L60811-14	VLP0155	COIL	4	
L60816-43	VLP0155	COIL	28	
L62101	VLP0155	COIL	1	
L62801-43	VLP0155	COIL	43	
L65001	VLQ0319K100	COIL 10UH	1	
P21301	VJS3791B050	CONNECTOR (FEMALE)	1	
P21302	VJS3791B020	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P21401	VJP3949C070H	CONNECTOR (MALE)	1	
P21601	VJP3125B008	CONNECTOR (MALE)	1	
P21701	VJS3791B050	CONNECTOR (FEMALE)	1	
P21702	VJS3791B020	CONNECTOR (FEMALE)	1	
P21801	VJP3949C070H	CONNECTOR (MALE)	1	
P60001-04	VJS4313D080	CONNECTOR (FEMALE)	4	
P60005	VJS3406B009	CONNECTOR (FEMALE)	1	
P60101	VJS3791B020	CONNECTOR (FEMALE)	1	
P61001	VJS3791B050	CONNECTOR (FEMALE)	1	
P61002	VJS3791B030	CONNECTOR (FEMALE)	1	
P62001	VJS3791B050	CONNECTOR (FEMALE)	1	
P62002	VJS3791B030	CONNECTOR (FEMALE)	1	
P62101	VJS3791B020	CONNECTOR (FEMALE)	1	
P65503	VJP1243T	CONNECTOR (MALE) 3P	1	
P65504	VJP1246T	CONNECTOR (MALE) 6P	1	
P65506, 07	VJS3791B020	CONNECTOR (FEMALE)	2	
P65508, 09	VJP1243T	CONNECTOR (MALE) 3P	2	
P65510	VJS3791B020	CONNECTOR (FEMALE)	1	
Q60300	2SB709A-R	TRANSISTOR	1	
Q60601	2SC3930-B	TRANSISTOR	1	
Q62300	2SB709A-R	TRANSISTOR	1	
Q62602	2SC3930-B	TRANSISTOR	1	
QR60101	UN5213	TRANSISTOR-RESISTOR	1	
QR60402	UN5213	TRANSISTOR-RESISTOR	1	
QR60501-26	UN5214	TRANSISTOR-RESISTOR	26	
QR60600, 01	UN5213	TRANSISTOR-RESISTOR	2	
QR62401	UN5213	TRANSISTOR-RESISTOR	1	
QR62501-25	UN5214	TRANSISTOR-RESISTOR	25	
QR65401-12	UN2214	TRANSISTOR-RESISTOR	12	
R21106	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21108	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21119	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R21121-25	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5	
R21126	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R21127	ERJ3GEYJ301	M. RESISTOR CH 1/16W 300	1	
R21128	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R21129	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21138	ERJ3GEYJ120	M. RESISTOR CH 1/16W 12	1	
R21144-47	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R21154-56	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R21165, 66	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R21167, 68	EXB24V473J	COMBI. R-R 47K	2	
R21170-81	EXB24V473J	COMBI. R-R 47K	12	
R21182	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21184, 85	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R21188	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R21189	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21190	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R21204	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21205	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21209	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21210-12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R21213	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R21214-17	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	4	
R21218, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R21401	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R21402-22	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	21	
R21506	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21508	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21519	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R21521-25	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5	
R21526	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R21527	ERJ3GEYJ301	M. RESISTOR CH 1/16W 300	1	
R21528	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R21529	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21538	ERJ3GEYJ120	M. RESISTOR CH 1/16W 12	1	
R21544-47	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R21554-56	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R21565, 66	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R21567, 68	EXB24V473J	COMBI. R-R 47K	2	
R21570-81	EXB24V473J	COMBI. R-R 47K	12	
R21582-84	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R21586	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R21589	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R21590	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R21601-03	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	3	
R21604	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21605	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R21609	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21610-12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R21613	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R21614-17	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	4	
R21618, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R21620-22	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R21801	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2. 7K	1	
R21802-22	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	21	
R21901	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R21903	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R21904	ERDS2TJ102	C. RESISTOR 1/4W 1K	1	
R21905-12	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
R21913, 14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R21915, 16	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R21917-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R21921	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R21922, 23	EXB24V103J	COMBI. R-R 10K	2	
R21924	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21925-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R60101	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R60102, 03	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60104-08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R60109, 10	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60112	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60113	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R60116	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60117	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60118, 19	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60122	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60123	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60191	EXB24V473J	COMBI. R-R 47K	1	
R60192, 93	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60196	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60197	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60199	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60202-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R60208-10	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	3	
R60211-14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R60215	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60300	ERJ3RBD133	M. RESISTOR CH 1/16W 13K	1	
R60301, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60303	ERJ3GEYJ433	M. RESISTOR CH 1/16W 43K	1	
R60304-07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R60308	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60309, 10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60311	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R60312	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R60313	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R60314	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R60315	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60316	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60317, 18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60319	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60320	ERJ3GEYJ824	M. RESISTOR CH 1/16W 820K	1	
R60321-28	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R60329, 30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60331	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60332	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60334	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60335, 36	ERJ3RBD332	M. RESISTOR CH 1/16W 3. 3K	2	
R60337	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60339, 40	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R60341	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60342	ERJ3RBD272	M. RESISTOR CH 1/16W 2. 7K	1	
R60343	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60344, 45	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R60346	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R60347	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60348	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R60349	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R60350	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R60351	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R60352	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R60353	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R60354	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60401	EXB24V473J	COMBI. R-R 47K	1	
R60402, 03	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60404	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60405	EXB24V473J	COMBI. R-R 47K	1	
R60406, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60408-11	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R60412	EXB24V473J	COMBI. R-R 47K	1	
R60413, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60417-20	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R60421, 22	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60423	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60424	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60426, 27	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60429, 30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60431	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60432-34	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R60435	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60436	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R60437	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60439	EXB24V473J	COMBI. R-R 47K	1	
R60440, 41	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60442	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R60443-50	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	8	
R60451	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60452	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60453	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60454, 55	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60456-58	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R60459	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60460	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60461-63	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R60464	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60465-67	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R60468	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60469	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60470	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60471	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60472	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60473	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R60474	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60475	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60476, 77	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60501-05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R60506-13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R60514-17	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R60518	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60519	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R60520	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R60521, 22	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	2	
R60523-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R60529, 30	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60531-37	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R60601	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R60602, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60604-18	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	15	
R60620	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
R60621	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60622-34	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	13	
R60635	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60636	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60637, 38	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60639-49	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	11	
R60650, 51	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60652	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60653	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60654	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60655, 56	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2	
R60657-60	EXB24V473J	COMBI. R-R 47K	4	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R60661-63	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R60801	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60804-07	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R60808-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R60811-19	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	9	
R60820	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60822, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60824	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R60825-30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R60891-94	EXB24V473J	COMBI. R-R 47K	4	
R60901	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60903-05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R60906-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R60910, 11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60912-15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R60981-84	EXB24V473J	COMBI. R-R 47K	4	
R60990-99	EXB24V473J	COMBI. R-R 47K	10	
R62101	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R62102, 03	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R62104-08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R62109, 10	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R62113	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R62115	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62117, 18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62121	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62191	EXB24V473J	COMBI. R-R 47K	1	
R62192, 93	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62196	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R62197	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62199	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62202-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R62208-10	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	3	
R62211-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R62217	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62300-07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R62308	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R62309-17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	9	
R62318-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R62321	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62323	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62324, 25	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R62326	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R62328, 29	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R62330	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62331	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R62332	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62333, 34	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R62335	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R62336	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62337	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R62338	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R62339	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R62340	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R62341	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R62342	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R62343	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62344, 45	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R62401	EXB24V473J	COMBI. R-R 47K	1	
R62402, 03	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R62404	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62405	EXB24V473J	COMBI. R-R 47K	1	
R62406, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R62408-11	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R62412	EXB24V473J	COMBI. R-R 47K	1	
R62413, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R62415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62417-20	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R62421, 22	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62423	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62425, 26	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62427, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62429	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62430, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62432	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62433	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R62434	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R62435	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62437	EXB24V473J	COMBI. R-R 47K	1	
R62438, 39	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62440	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R62441-46	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	
R62447	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62448, 49	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62450	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62451-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R62455, 56	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R62457	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62458	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62459-63	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5	
R62464	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R62465-67	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R62468	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62469	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62470	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62471	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62472	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62473	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R62474	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62475	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62476, 77	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62501-05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R62506-13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R62514, 15	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62516	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62517, 18	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	2	
R62519-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R62525, 26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R62527-33	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R62603	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R62604	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62605	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62607	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62608-22	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	15	
R62625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62626-38	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	13	
R62641	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62643-51	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	9	
R62652	ERJ3GEYJ301	M. RESISTOR CH 1/16W 300	1	
R62653, 54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62655-58	EXB24V473J	COMBI. R-R 47K	4	
R62660, 61	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2	
R62662-64	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R62801	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62804-07	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R62808-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R62811-19	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	9	
R62820	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62822, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62824	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R62825-30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R62891-94	EXB24V473J	COMBI. R-R 47K	4	
R62901	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62903-05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R62906, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R62908-15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
R62981-84	EXB24V473J	COMBI. R-R 47K	4	
R62990-99	EXB24V473J	COMBI. R-R 47K	10	
R63005-79	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	75	
R63080-00	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	21	
R63151	EXB24V103J	COMBI. R-R 10K	1	
R65001-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R65005	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65007, 08	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R65009	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R65010-13	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R65014, 15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R65016-18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R65019, 20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R65023-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	9	
R65034	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R65036	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65037	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R65039, 40	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R65041	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65042	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65043-48	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	
R65050	ERDS2TJ103	C. RESISTOR 1/4W 10K	1	
R65101	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R65102-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R65105	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R65106-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R65113-16	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R65117-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R65121-23	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R65201, 02	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R65205, 06	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R65207-10	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	4	
R65211	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R65212	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R65213-16	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	4	
R65217-20	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R65221-28	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
R65229, 30	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R65235-46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	12	
R65301, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R65303	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R65304	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65306	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65307	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R65308	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65310	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65311, 12	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R65313	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65315-18	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	4	
R65319-26	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	8	
R65327, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R65329	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65330	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65331	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65332, 33	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R65334	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65335	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65336	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65337, 38	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R65341	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65342-45	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R65401-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R65404	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65527-34	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
SW65501	VSS0367-08B	SWITCH	1	
T660001, 02	EYF6CU	TEST POINT	2	
TP21101-03	EYF6CU	TEST POINT	3	
TP21501-03	EYF6CU	TEST POINT	3	
TP60101	EYF6CU	TEST POINT	1	
TP60300	EYF6CU	TEST POINT	1	
TP60304, 05	EYF6CU	TEST POINT	2	
TP60307-10	EYF6CU	TEST POINT	4	
TP60601, 02	EYF6CU	TEST POINT	2	
TP61101	EYF6CU	TEST POINT	1	
TP62304-07	EYF6CU	TEST POINT	4	
TP62601, 02	EYF6CU	TEST POINT	2	
TP65001-06	EYF6CU	TEST POINT	6	
TP65101-04	EYF6CU	TEST POINT	4	
VR60601, 02	VRV0303B203A	V. RESISTOR 20K	2	
VR62601, 02	VRV0303B203A	V. RESISTOR 20K	2	
X21101	VSX0918	CRYSTAL OSCILLATOR	1	
X21501	VSX0918	CRYSTAL OSCILLATOR	1	
X60101	VSX0641	CRYSTAL OSCILLATOR	1	
X60300	VSX1001	CRYSTAL OSCILLATOR	1	
X62101	VSX0641	CRYSTAL OSCILLATOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
X62300	VSX1001	CRYSTAL OSCILLATOR	1	
X65001	VSX1034	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VKC0554	MINI CARD SPACER	3	
	VJF1310	CONNECTOR HOLDER	2	
■ E33	VEP86291A	DISPLAY CONTROL P.C BOARD	1	(RTL)
C68001, 02	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	2	
C68003	EEVHB1E330P	E. CAPACITOR 25V 33U	1	
C68004	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C68101, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C68103, 04	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C68105-12	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	8	
C68302	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68303, 04	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C68305	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C68306	VCK0303K225	C. CAPACITOR 2.2U	1	
C68307	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68308, 09	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	2	
C68310	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C68311	ECUM1H183KBN	C. CAPACITOR CH 50V 0.018U	1	
C68314, 15	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C68317	ECUM1H272KBN	C. CAPACITOR CH 50V 2700P	1	
C68318	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C68319	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68320	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C68321	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68322	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C68323	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C68324	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68325	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68329, 30	EEUFC1C331	E. CAPACITOR 16V 330U	2	
C68331, 32	EEUFC1C391	E. CAPACITOR 16V 390P	2	
C68333	EEUFC1H470	E. CAPACITOR 50V 47U	1	
C68335	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68336	VCK0303K225	C. CAPACITOR 2.2U	1	
C68337	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	1	
C68338	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68339	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C68340	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C68341, 42	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C68345	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68346	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C68347	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68348	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68351	EEUFC1C331	E. CAPACITOR 16V 330U	1	
C68401	EEVHB0J220	E. CAPACITOR 6.3V 22U	1	
C68402, 03	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C68404	EEVHB0J220	E. CAPACITOR 6.3V 22U	1	
C68405	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
D68001-03	MA153	D1ODE	3	
D68004-07	M1MA152K	D1ODE	4	
D68201, 02	MA4030M	MKR (MAZ40300M)	2	
D68301, 02	MA152K	D1ODE	2	
D68304	MA152K	D1ODE	1	
D68306	DE5SC4M-4061	D1ODE	1	
D68307	SFPL-52	D1ODE	1	
D68308, 09	SFPB-54	D1ODE	2	
D68310	SFPL-52	D1ODE	1	
D68311	MA152WK	D1ODE	1	
D68312	MA3120-M	D1ODE	1	
D68313, 14	MA3200-M	D1ODE	2	
D68315	MA152K	D1ODE	1	
D68317	DE5SC4M-4061	D1ODE	1	
D68318	MA152K	D1ODE	1	
D68319	MA152WK	D1ODE	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D68320	MA3120-M	DIODE	1	
D68321, 22	MA165	DIODE	2	
D68401	M1MA152K	DIODE	1	
FL68401	VLFI016A470	FILTER	1	
IC68001	MN1382-R	IC	1	
IC68002	VS13338A	IC	1	
IC68101	M62353GP	IC	1	
IC68301, 02	BA9743AFV	IC	2	
IC68401	XC62AP5002P	IC	1	
L68301, 02	VLP0352	FERRITE CORE	2	
L68304	VLP0364	CHIP INDUCTOR	1	
L68305	VLQ0859M680	COIL 68UH	1	
L68307, 08	VLQ0407100M	COIL 10UH	2	
L68309	VLP0352	FERRITE CORE	1	
L68310	VLQ0504220M	COIL 22UH	1	
L68311	VLP0364	CHIP INDUCTOR	1	
L68312	VLQ0859M680	COIL 68UH	1	
L68313	VLQ0407100M	COIL 10UH	1	
P68101	VJS3826A010	CONNECTOR (FEMALE)	1	
P68102	VJS3826C030	CONNECTOR (FEMALE)	1	
P68103	VJS3826A010	CONNECTOR (FEMALE)	1	
P68104	VJS3826C030	CONNECTOR (FEMALE)	1	
P68201, 02	VJS34060D030	CONNECTOR (FEMALE)	2	
P68401	VJP3926A014	CONNECTOR (MALE)	1	
P68402	VJP3926A010	CONNECTOR (MALE)	1	
P68403, 04	VJP1231T	CONNECTOR (MALE) 4P	2	
P68405	VJS3826A020	CONNECTOR (FEMALE)	1	
P68406, 07	VJP3080	CONNECTOR (MALE)	2	
P68408-10	VJP1230T	CONNECTOR (MALE) 3P	3	
Q68301	XN4501	TRANSISTOR-RESISTOR	1	
Q68302	2SD602A-R	TRANSISTOR	1	
Q68303	2SB710A-R	TRANSISTOR	1	
Q68304	XN4401	TRANSISTOR-RESISTOR	1	
Q68305	2SD602A-R	TRANSISTOR	1	
Q68306	2SD601A-R	TRANSISTOR	1	
Q68307	2SB710A-R	TRANSISTOR	1	
Q68308	XN4401	TRANSISTOR-RESISTOR	1	
Q68310	2SJ489-4061	FET	1	
Q68311	2SK1748-Z	TRANSISTOR	1	
Q68312	2SD1819A-R	TRANSISTOR	1	
Q68313	2SD602A-R	TRANSISTOR	1	
Q68314	2SB710A-R	TRANSISTOR	1	
Q68315	XN4401	TRANSISTOR-RESISTOR	1	
Q68316	2SJ489-4061	FET	1	
Q68401	2SB710A-R	TRANSISTOR	1	
QR68301	UN2114	TRANSISTOR-RESISTOR	1	
QR68302	MUN2213	TRANSISTOR-RESISTOR	1	
QR68303, 04	UN2114	TRANSISTOR-RESISTOR	2	
QR68305, 06	MUN2112	TRANSISTOR-RESISTOR	2	
QR68307, 08	MUN2211	TRANSISTOR-RESISTOR	2	
QR68309	MUN2113	TRANSISTOR-RESISTOR	1	
QR68310, 11	UN2114	TRANSISTOR-RESISTOR	2	
QR68312	MUN2112	TRANSISTOR-RESISTOR	1	
QR68313	MUN2211	TRANSISTOR-RESISTOR	1	
QR68314, 15	UN2213	TRANSISTOR-RESISTOR	2	
R68001-05	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	5	
R68006	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R68007-09	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3	
R68010-14	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	5	
R68015-21	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	7	
R68022	ERJ6GEYG471	M. RESISTOR CH 1/10W 470	1	
R68023, 24	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
R68025-28	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	4	
R68029-31	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	3	
R68035	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68036-39	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	4	
R68040	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68041	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R68042, 43	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R68044, 45	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K	2	
R68046	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R68047-63	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	17	
R68101-03	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
R68108-29	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	22	
R68201, 02	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	2	
R68208	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
R68217-54	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	38	
R68301	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R68302, 03	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	2	
R68304-06	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3	
R68307, 08	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	2	
R68309	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
R68310	ERJ6GEYF124	M. RESISTOR CH 1/10W 120K	1	
R68311	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	1	
R68312	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	
R68314	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.9K	1	
R68315	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R68316	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68317	ERJ6RBD302	M. RESISTOR CH 1/10W 3K	1	
R68318	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R68320	ERJ6GEYJ820	M. RESISTOR CH 1/10W 82	1	
R68321	ERJ6RBD823	M. RESISTOR CH 1/10W 82K	1	
R68322	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68323	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68324	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68325, 26	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R68327	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R68328-30	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	3	
R68331	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68332	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R68334	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R68335	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68336	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R68338	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R68341	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68342	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68343	ERJ14RSJR10	M. RESISTOR CH 1/4W 0.1	1	
R68344	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68345	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68349	ERJ6RBD223	M. RESISTOR CH 1/10W 22K	1	
R68351	ERJ6RBD201	M. RESISTOR CH 1/10W 200	1	
R68352	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	1	
R68353	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K	1	
R68354	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68355	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R68356, 57	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	2	
R68358, 59	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R68360	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	1	
R68362	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R68363	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68364	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68365	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68366	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R68367-69	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	3	
R68371	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68372	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R68374	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68376	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68378	ERJ6RBD223	M. RESISTOR CH 1/10W 22K	1	
R68379	ERJ6RBD201	M. RESISTOR CH 1/10W 200	1	
R68380	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	1	
R68381, 82	EROS2CKF1502	M. RESISTOR CH 1/4W 15K	2	
R68383	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R68385, 86	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	2	
R68401-05	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	5	
R68407-10	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	4	
R68411-26	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	16	
R68428, 29	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R68430	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68431	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68432	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68434	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1	
R68435	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	



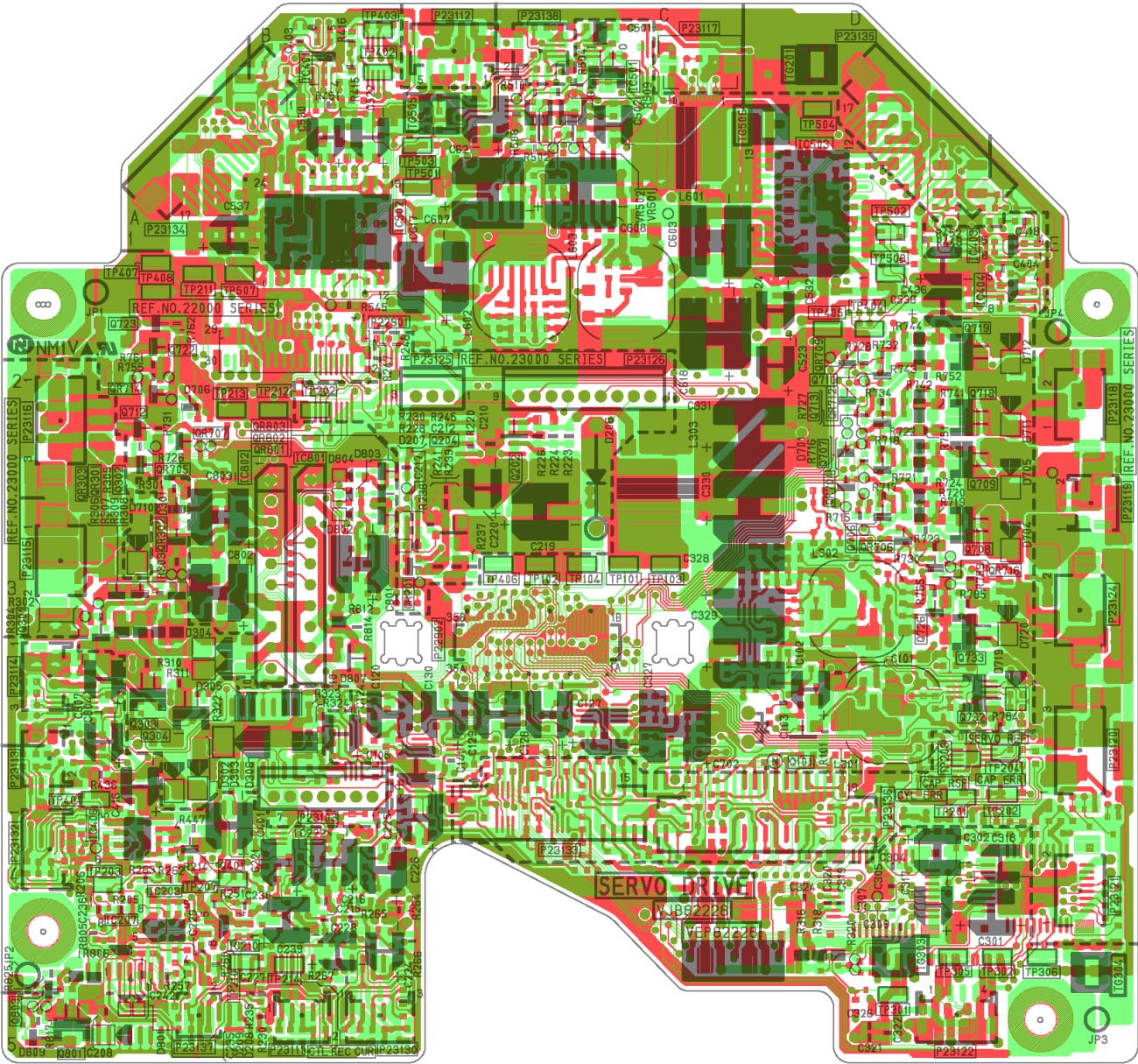
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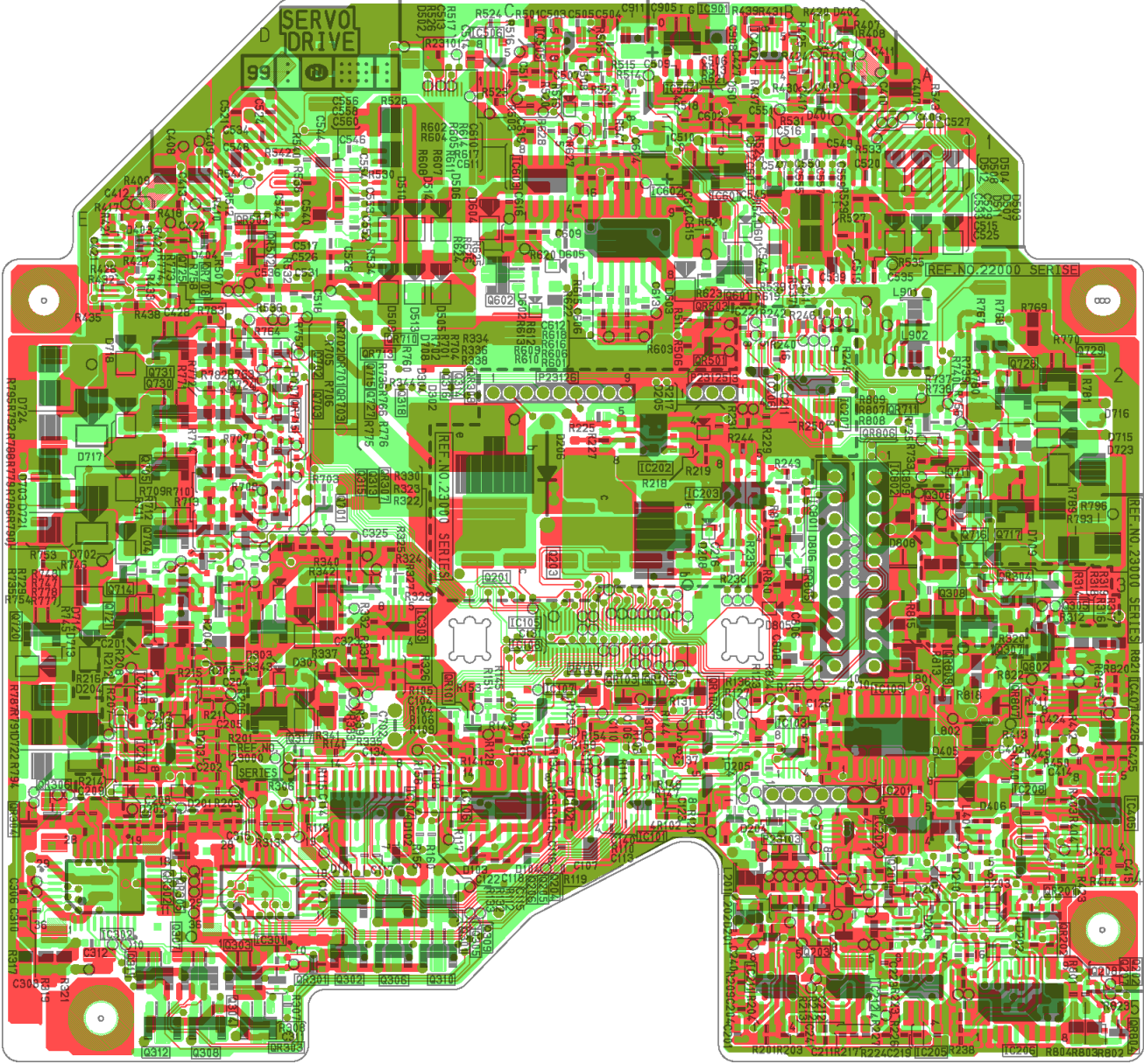
SERVO DRIVE P.C. BOARD (VEP82228A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC22203	A4	P23113	A4	P23135	D1	Q22726	D3	QR22714	A2	TP22104	C3	TP22405	D2
IC22207	A4	P23114	A3	P23136	D4	Q22732	E3	QR22716	D3	TP22202	B2	TP22406	C3
IC22210	A4	P23115	A3	P23137	A5	Q22733	D3	QR22801	B3	TP22203	A4	TP22407	A2
IC22401	B1	P23116	A2	P23138	C1	Q22801	A5	QR22802	B2	TP22207	A4	TP22408	A2
IC22403	E2	P23117	C1	Q22101	D3	Q22803	A4	QR22803	B2	TP22210	B4	TP22501	B1
IC22404	E2	P23118	E2	Q22401	A4	Q23202	C2	QR23201	B3	TP22211	A2	TP22502	D1
IC22406	A4	P23119	E3	Q22706	D3	Q23204	B3	QR23301	A3	TP22212	B2	TP22503	B1
IC22501	C1	P23120	E4	Q22707	D2	Q23301	A3	QR23302	A3	TP22213	A2	TP22504	D1
IC22502	B1	P23121	E4	Q22708	D3	Q23302	A3	QR23303	A3	TP22214	B4	TP22507	A2
IC22503	D1	P23122	D5	Q22709	D2	Q23303	A3	TG22303	D4	TP22301	D4	TP22508	D2
IC22801	B2	P23124	E3	Q22710	D2	Q23304	A3	TG22304	E4	TP22302	E4	TP23201	D4
IC22802	B2	P23125	B2	Q22712	A2	QR22704	D2	TG22505	B1	TP22305	D4	TP23202	E4
P22901	B2	P23126	C2	Q22713	D2	QR22705	A2	TG22506	D1	TP22306	E4	TP23203	D4
P22902	C3	P23130	B5	Q22718	D2	QR22706	D3	TG23201	D1	TP22401	A4	TP23204	E4
P23103	B4	P23132	A4	Q22719	D2	QR22707	A2	TP22101	C3	TP22402	B1	VR22501	C1
P23111	B5	P23133	C4	Q22722	A2	QR22709	D2	TP22102	C3	TP22403	B1	VR22502	C1
P23112	B1	P23134	A1	Q22723	A2	QR22712	D2	TP22103	C3	TP22404	D2		

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC22101	C4	IC22303	C3	Q22202	B4	Q22312	D5	Q22717	A3	QR22102	C3	QR22701	D2
IC22102	C4	IC22402	B1	Q22203	B4	Q22313	D3	Q22720	E3	QR22103	C3	QR22702	D2
IC22103	B4	IC22405	A4	Q22204	B4	Q22314	D3	Q22721	E3	QR22104	B3	QR22703	D3
IC22104	D4	IC22407	A3	Q22205	B4	Q22315	D3	Q22724	D2	QR22105	B3	QR22708	D2
IC22105	B4	IC22504	B1	Q22206	B4	Q22316	D3	Q22725	D2	QR22201	A4	QR22710	D3
IC22106	C4	IC22505	C1	Q22207	B4	Q22317	D3	Q22727	D3	QR22202	A4	QR22711	A2
IC22107	C3	IC22506	C1	Q22208	B4	Q22318	D3	Q22728	A2	QR22301	D4	QR22713	D3
IC22108	B4	IC22601	B1	Q22301	D4	Q22601	B2	Q22729	A2	QR22302	D4	QR22715	D2
IC22109	B4	IC22602	C2	Q22302	D4	Q22602	C2	Q22730	D2	QR22303	D4	QR22804	A5
IC22201	A4	IC22603	C1	Q22303	D4	Q22701	D3	Q22731	D2	QR22304	E4	QR22805	B3
IC22202	B4	IC22901	B1	Q22304	D5	Q22702	D2	Q22802	A3	QR22305	D4	QR22806	B3
IC22205	A5	IC23202	B2	Q22305	C4	Q22703	D3	Q23201	C3	QR22306	E4	QR22807	A3
IC22206	A5	IC23203	B2	Q22306	C4	Q22704	D3	Q23203	C3	QR22307	D3	QR22808	A3
IC22208	A4	IC23204	D4	Q22307	D4	Q22705	D2	Q23305	A3	QR22308	D3	QR23304	A3
IC22211	B5	IC23205	D3	Q22308	D5	Q22711	A2	Q23306	A3	QR22501	B2		
IC22212	B5	IC23206	B2	Q22309	C4	Q22714	E3	Q23307	A3	QR22502	D2		
IC22301	D4	IC23207	B2	Q22310	C4	Q22715	D3	Q23308	A3	QR22503	B2		
IC22302	E4	Q22201	B4	Q22311	D4	Q22716	A3	QR22101	C3	QR22504	D1		



(COMPONENT SIDE)

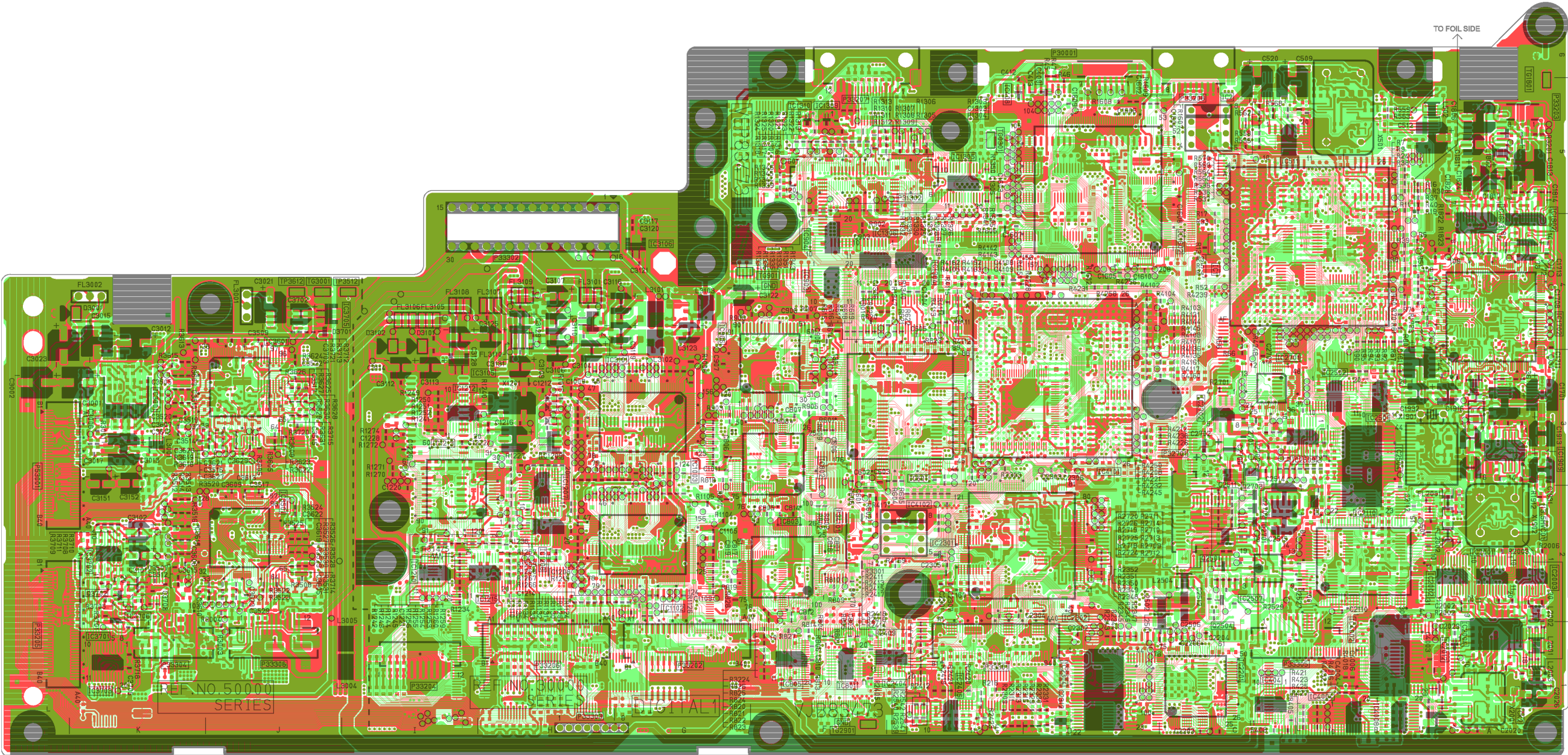


(FOIL SIDE)



DIGITAL 1 P.C. BOARD (VEP83473B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC30001	B4	IC31209	H3	IC32003	A2	IC33101	H4	P32701	C2	Q32702	C2
IC30404	C1	IC31210	I2	IC32004	A1	IC33105	I3	P33202	G1	Q32703	C2
IC30408	E5	IC31212	I3	IC32012	A1	IC33106	G4	P33203	A5	Q53702	K2
IC30409	D5	IC31213	I2	IC32110	B2	IC34002	B1	P33204	I1	TG30301	E5
IC30511	C5	IC31215	H2	IC32201	C1	IC34004	B1	P33205	L1	TG30901	F4
IC30601	E3	IC31304	E4	IC32301	E2	IC34008	B1	P33206	H1	TG31801	A5
IC30801	F1	IC31305	E5	IC32302	D2	IC34101	D3	P33207	F6	TG32901	F1
IC30802	F3	IC31306	F4	IC32304	D1	IC53001	K3	P33208	C6	TG53001	J4
IC30803	F2	IC31309	F5	IC32404	F1	IC53501	J2	P33301	E1	TP53512	I4
IC30805	F1	IC31310	F5	IC32405	E1	IC53601	J3	P33304	K1	TP53612	J4
IC30903	F4	IC31602	D5	IC32501	B3	IC53701	K1	P33305	B1	X30501	B6
IC30904	F4	IC31702	A4	IC32502	B3	IC53702	K2	P33306	J1	X31201	H3
IC30906	F3	IC31802	A4	IC32504	B3	IC53703	K1	P34101	F2	X31901	B3
IC31003	G3	IC31803	A4	IC32507	C2	IC53705	J4	P53001	L3	X31902	A2
IC31102	G2	IC31909	A3	IC32509	B3	IC53706	K2	Q32501	C2	X32001	A1
IC31207	H2	IC32001	A2	IC32701	C3	P30001	D5	Q32504	C2		
IC31208	H2	IC32002	A2	IC32702	C3	P31302	F5	Q32701	C2		

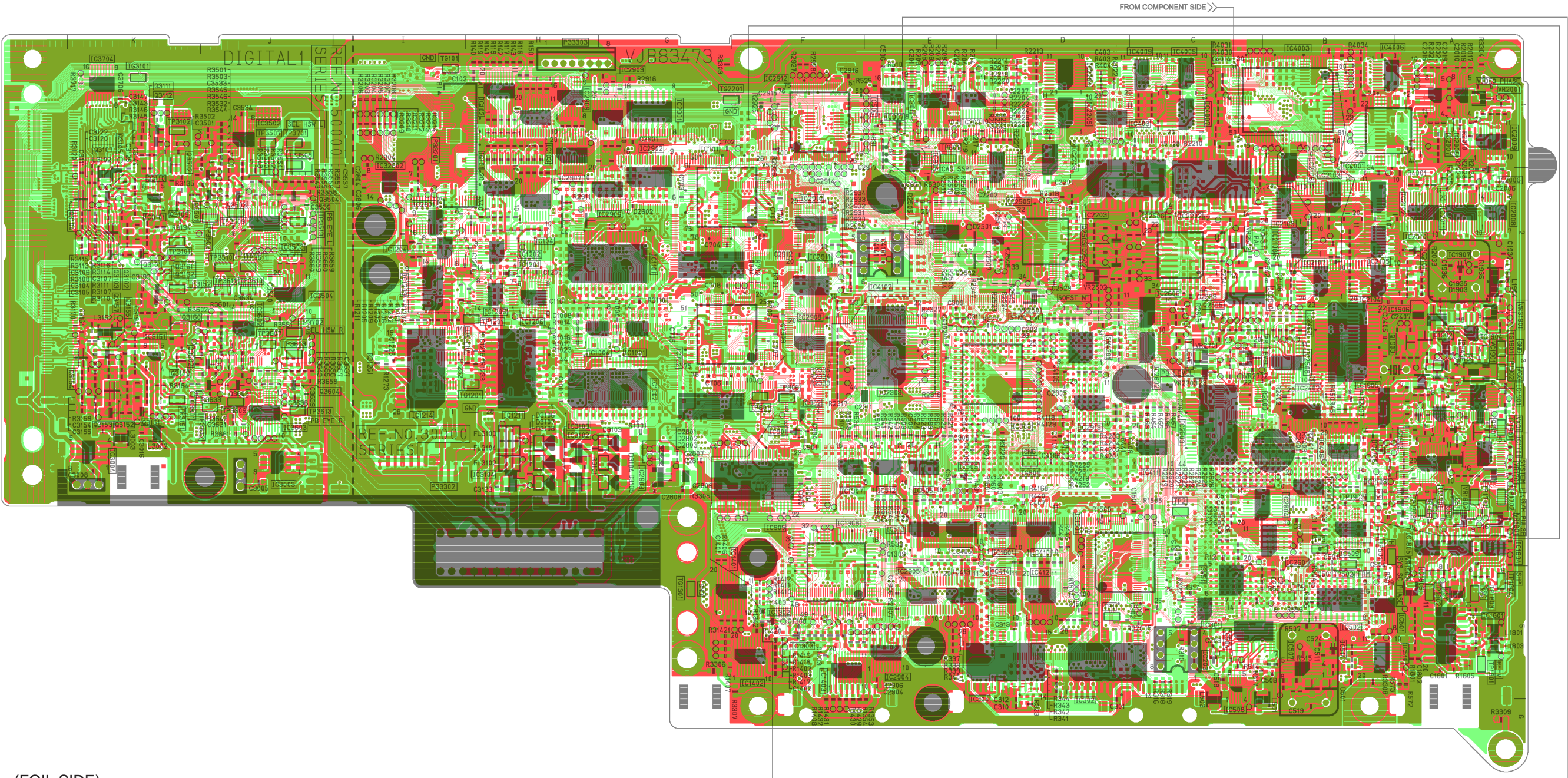


(COMPONENT SIDE)



DIGITAL 1 P.C. BOARD (VEP83473B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC		
IC30101	H2	IC30414	D5	IC30902	F3	IC31308	F5	IC31903	A3	IC32106	B1	IC32510	C2	IC32910	F2	IC34007	C1	Q32502	D2	Q53157	K3	TG31301	G5	TP31801	A5	TP53508	J1	TP53702	J3
IC30102	H1	IC30501	B5	IC30905	F4	IC31401	F5	IC31904	A3	IC32107	B2	IC32601	B4	IC32911	F2	IC34009	C1	Q32503	D2	Q53159	K3	TG31701	A4	TP31802	A5	TP53509	J2	VC31901	A3
IC30103	H1	IC30502	B5	IC30907	E1	IC31402	F5	IC31905	B3	IC32108	B2	IC32602	C3	IC32912	F1	IC53003	J4	Q32505	C3	Q53160	K3	TG31901	A3	TP31803	A5	TP53510	J2	VR31701	A4
IC30104	H2	IC30503	E4	IC31001	G3	IC31403	F5	IC31906	A3	IC32109	B2	IC32603	C3	IC32913	D3	IC53004	K4	Q53101	K2	Q53161	K2	TG32201	F1	TP31804	A5	TP53511	J2	VR31801	A4
IC30201	E1	IC30504	C5	IC31002	G3	IC31501	C4	IC31907	A2	IC32202	C2	IC32604	B4	IC33102	H4	IC53101	K2	Q53102	K2	Q53162	K3	TG53101	K1	TP31901	A3	TP53513	J2	VR31802	A4
IC30202	E1	IC30505	E4	IC31004	G3	IC31601	D4	IC31908	A3	IC32203	C2	IC32605	C3	IC33103	H4	IC53151	K3	Q53103	K2	Q53501	K2	TP30001	D5	TP31902	A3	TP53601	K3	VR31901	A3
IC30203	C5	IC30506	E1	IC31101	G2	IC31701	A4	IC32005	A1	IC32204	D1	IC32801	I2	IC33104	H4	IC53502	J1	Q53104	K2	Q53502	K2	TP30002	C4	TP31903	B4	TP53602	J3	VR31902	A5
IC30301	C5	IC30507	B5	IC31201	H2	IC31703	A4	IC32006	A2	IC32205	D1	IC32802	I2	IC33301	F1	IC53503	J2	Q53105	K2	Q53503	J2	TP30003	B4	TP53101	K2	TP53603	J3	VR32001	A1
IC30302	D5	IC30508	C5	IC31202	H2	IC31704	A4	IC32007	A1	IC32206	D1	IC32803	G4	IC33302	A1	IC53504	J2	Q53107	K2	Q53504	J2	TP30004	B5	TP53102	K1	TP53604	J3	VR32501	D2
IC30303	E3	IC30509	B4	IC31203	I2	IC31705	A4	IC32008	A2	IC32207	D1	IC32901	G1	IC33303	G4	IC53602	J3	Q53109	K2	Q53601	K3	TP30501	A4	TP53151	K3	TP53605	J3	VR32502	D2
IC30304	D5	IC30510	B5	IC31204	I2	IC31706	B4	IC32009	A1	IC32303	E3	IC32902	G2	IC33304	G5	IC53603	J3	Q53110	K1	Q53602	K3	TP30502	B4	TP53152	K2	TP53606	J3	VR32503	C2
IC30403	D1	IC30512	E4	IC31205	H2	IC31707	A4	IC32010	A2	IC32401	B4	IC32903	G1	IC33305	F6	IC53704	K1	Q53111	K1	Q53603	J3	TP30601	F3	TP53501	K2	TP53607	J3	VR32701	C3
IC30405	E4	IC30513	E4	IC31206	H2	IC31801	A5	IC32011	A2	IC32402	B3	IC32904	E5	IC33306	B6	P33201	I1	Q53112	K1	Q53604	J3	TP30801	E1	TP53502	J2	TP53608	J3	VR32702	C3
IC30406	B4	IC30514	B5	IC31211	H3	IC31804	A4	IC32101	A2	IC32403	B3	IC32905	E5	IC33307	A6	P33302	H4	Q53151	K3	SW30051	C5	TP30806	F3	TP53503	J2	TP53609	J3	VR32703	C3
IC30410	D4	IC30701	G2	IC31214	I3	IC31805	A4	IC32102	B2	IC32503	E2	IC32906	G2	IC34001	B1	P33303	G1	Q53152	K3	SW34201	D3	TP31201	H3	TP53504	J2	TP53610	J2		
IC30411	C4	IC30702	G3	IC31302	F5	IC31806	A4	IC32103	B2	IC32505	D2	IC32907	H1	IC34003	B1	Q31901	A3	Q53153	K3	TG30101	I1	TP31701	A4	TP53505	J2	TP53611	J2		
IC30412	D5	IC30806	E1	IC31303	F5	IC31901	A3	IC32104	B2	IC32506	C2	IC32908	F3	IC34005	C1	Q31902	A3	Q53154	K3	TG30801	D4	TP31702	A4	TP53506	J2	TP53613	J3		
IC30413	E5	IC30901	F3	IC31307	F4	IC31902	A3	IC32105	B2	IC32508	B3	IC32909	H1	IC34006	A1	Q31903	A3	Q53155	K3	TG31201	H3	TP31703	A4	TP53507	J1	TP53701	J1		

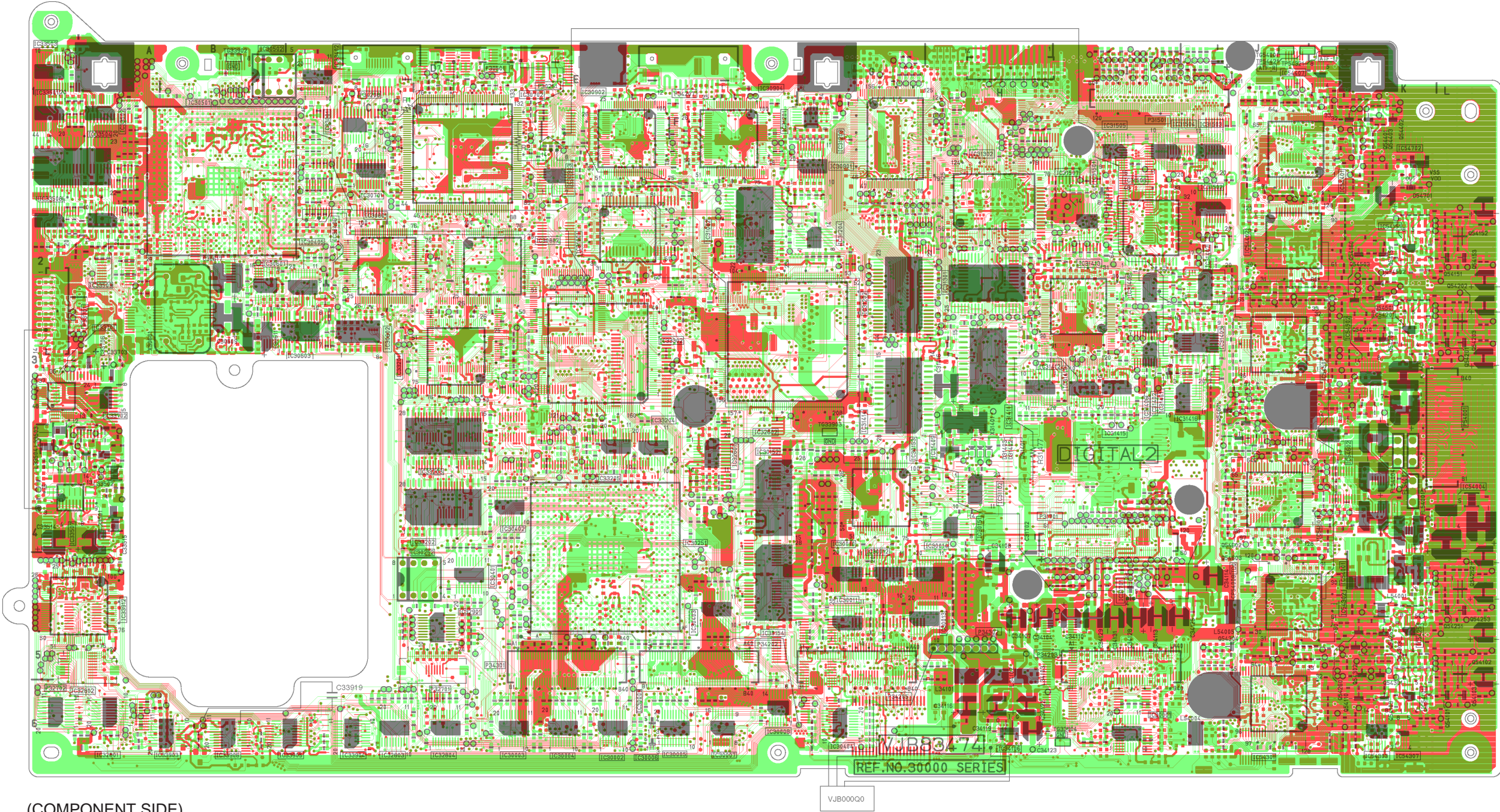


(FOIL SIDE)



DIGITAL 2 P.C. BOARD (VEP83474B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC30001	I6	IC30154	F5	IC30902	E1	IC31408	I2	IC32601	F4	IC33503	A1	IC54201	K3	P31701	I4	Q54102	L5	Q54259	K5	TG33904	I6
IC30002	E6	IC30251	E4	IC30903	E1	IC31409	H4	IC32602	F3	IC33504	A1	IC54251	K5	P32701	D5	Q54103	L5	Q54260	K5	TG54001	J1
IC30003	D6	IC30401	D5	IC30904	F1	IC31410	I3	IC32801	A6	IC33507	A4	IC54301	J6	P32702	A5	Q54109	K6	Q54301	K5	TP54310	K4
IC30004	E6	IC30402	D4	IC31001	E2	IC31411	H3	IC32802	A6	IC33508	A2	IC54302	J5	P33701	A3	Q54110	K6	Q54302	K5	TP54321	K1
IC30005	F6	IC30403	F5	IC31002	F2	IC31412	H3	IC32803	C6	IC33509	A2	IC54303	K6	P34202	F5	Q54151	L2	Q54303	K5	TP54402	J2
IC30006	E6	IC30404	G6	IC31102	H4	IC31413	I3	IC32804	D6	IC33701	A3	IC54307	K6	P34203	I5	Q54152	L2	Q54304	J5	TP54421	K1
IC30007	F6	IC30405	C2	IC31201	F1	IC31414	G3	IC32901	D5	IC33702	A3	IC54401	J1	P34205	G5	Q54153	L2	Q54401	K1	TP54503	J3
IC30008	F6	IC30406	C2	IC31202	G2	IC31415	I3	IC33001	C1	IC33903	B6	IC54402	J2	P34206	H1	Q54159	K2	Q54402	K1	TP54601	K4
IC30009	E6	IC30501	B2	IC31203	G1	IC31416	J3	IC33201	D3	IC33904	C6	IC54407	K1	P34207	F1	Q54160	K2	Q54403	K1	TP54605	J4
IC30010	G5	IC30601	B2	IC31204	G2	IC31501	I2	IC33202	D4	IC33905	C6	IC54501	J3	P34208	C1	Q54201	L3	Q54501	K2	X30601	B2
IC30011	G5	IC30602	C3	IC31301	H2	IC31502	J2	IC33203	D4	IC33906	B6	IC54502	K3	P34301	E5	Q54202	L3	Q54502	K2	X31401	H3
IC30012	G5	IC30603	C3	IC31302	H2	IC31503	J1	IC33204	E4	IC33912	A5	IC54601	J4	P54001	K3	Q54203	L3	Q54503	K2		
IC30013	H5	IC30701	C1	IC31401	I3	IC31504	I1	IC33205	E4	IC34106	H6	IC54602	K4	Q33501	A4	Q54209	K3	Q54601	J3		
IC30014	H5	IC30702	D1	IC31402	I3	IC31505	I1	IC33302	E3	IC54001	K5	IC54702	K1	Q33502	A3	Q54210	K3	Q54602	J3		
IC30151	H4	IC30801	C2	IC31403	J3	IC31506	I2	IC33402	C1	IC54004	K4	P30251	D1	Q33503	A3	Q54251	L5	Q54603	J4		
IC30152	F4	IC30802	D2	IC31406	I3	IC31507	I2	IC33501	A1	IC54101	K6	P30501	D1	Q33504	A4	Q54252	L5	TG33902	B1		
IC30153	G4	IC30901	G1	IC31407	J2	IC31701	I5	IC33502	A1	IC54151	K2	P31501	I1	Q54101	L5	Q54253	L5	TG33903	G3		

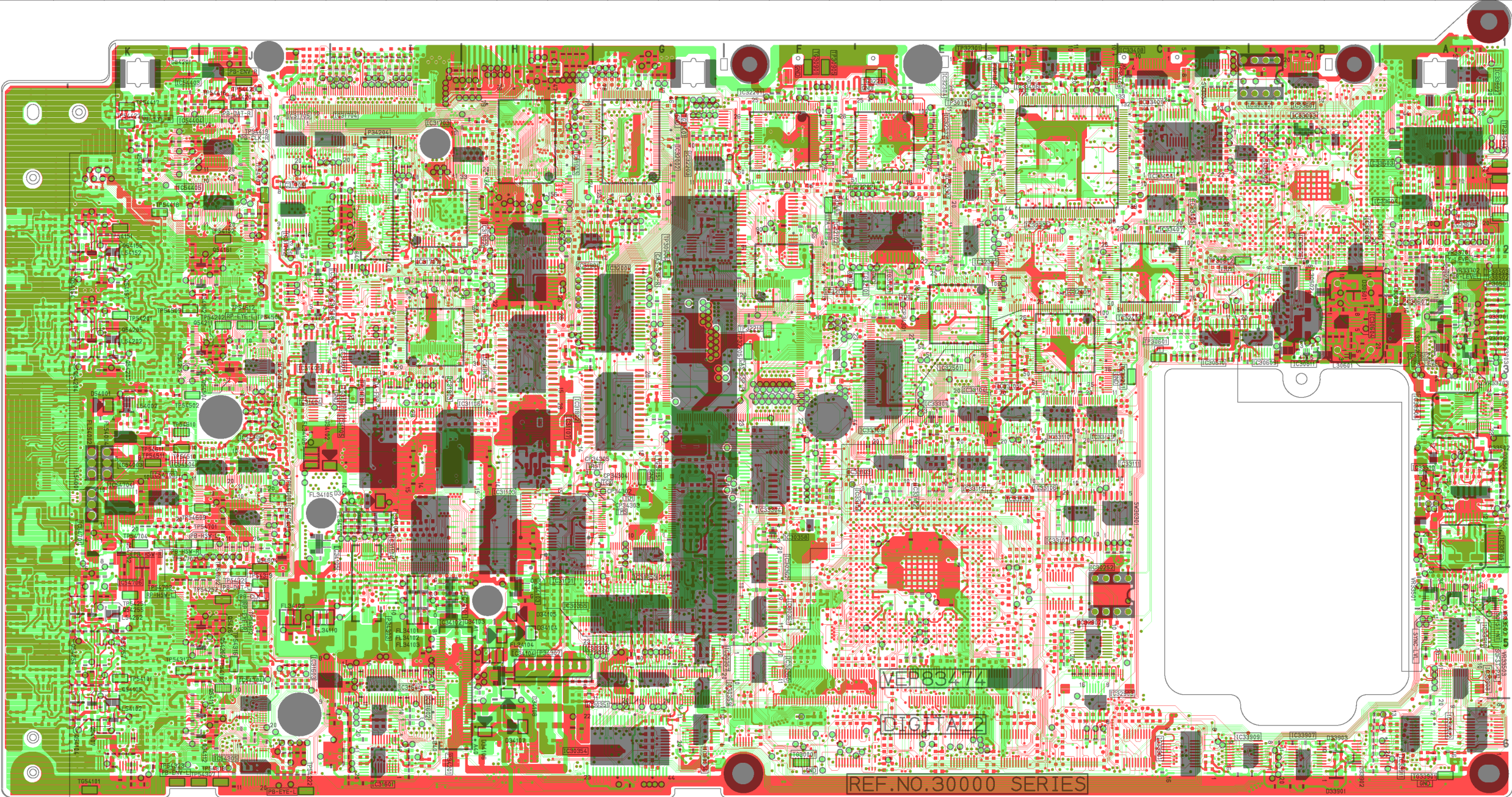


(COMPONENT SIDE)



DIGITAL 2 P.C. BOARD (VEP83474B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC30351	G5	IC30610	C3	IC31703	H1	IC32203	G2	IC33106	D4	IC33506	A3	IC34105	J4	P34303	I5	Q54211	J3	TG31801	I3	TP32205	F3	TP54308	J4	TP54406	K2	TP54502	K3	TP54611	K4
IC30352	G5	IC30611	B3	IC31704	I1	IC32301	E2	IC33107	D4	IC33510	A4	IC54003	K4	Q33505	A4	Q54212	J3	TG32101	E2	TP32210	F3	TP54309	K4	TP54407	J2	TP54504	J2	TP54612	J5
IC30353	G4	IC30612	B3	IC31705	J1	IC32302	E2	IC33108	D4	IC33601	B1	IC54304	J6	Q33701	A3	Q54254	K5	TG32201	E1	TP32301	D1	TP54311	J6	TP54408	K2	TP54505	J2	TP54701	J4
IC30354	G6	IC31101	H4	IC31706	J2	IC32303	E1	IC33109	D3	IC33602	A1	IC54305	J6	Q33702	A3	Q54255	K5	TG33201	C3	TP54101	K5	TP54312	J6	TP54409	K2	TP54506	J2	TP54702	K4
IC30355	G5	IC31103	H4	IC31707	I2	IC32304	E1	IC33110	D3	IC33603	A1	IC54306	J4	Q33703	A3	Q54257	K5	TG33901	A6	TP54102	J5	TP54313	J6	TP54410	K2	TP54507	J2	TP54703	K4
IC30356	G6	IC31104	I4	IC31801	I3	IC32305	D1	IC33111	D4	IC33604	A2	IC54403	J1	Q54104	K6	Q54261	J5	TG54101	K6	TP54151	K2	TP54314	J6	TP54411	J2	TP54508	J3	TP54704	K4
IC30357	G5	IC31105	I4	IC31802	G3	IC32401	D3	IC33112	E4	IC33605	A2	IC54404	J1	Q54105	K6	Q54262	J5	TG54201	K1	TP54152	J2	TP54315	J6	TP54412	J2	TP54509	K3	VR33501	A5
IC30358	F4	IC31106	I4	IC31803	I3	IC32402	C2	IC33301	E3	IC33901	C6	IC54405	J2	Q54107	K6	Q54404	K1	TP30501	A2	TP54201	K3	TP54316	J5	TP54413	J2	TP54510	K4	VR33502	A5
IC30359	G5	IC31107	H4	IC31804	H3	IC32501	E3	IC33303	E3	IC33902	A6	IC54503	J3	Q54111	J6	Q54504	J3	TP30502	A2	TP54202	J3	TP54317	K5	TP54414	J2	TP54511	K4	VR33503	A5
IC30360	F5	IC31404	J3	IC31901	G2	IC32902	D5	IC33304	F4	IC33907	B6	IC54504	J4	Q54112	J6	Q54604	J4	TP30503	A2	TP54251	K5	TP54318	J6	TP54415	J1	TP54512	J3	VR33701	A2
IC30361	F5	IC31405	J3	IC31902	H2	IC32903	D6	IC33401	C1	IC33908	A5	IC54603	J4	Q54154	K2	Q54702	K4	TP30504	A2	TP54252	J5	TP54319	J5	TP54416	J1	TP54602	J5	VR33702	A3
IC30362	F4	IC31508	J3	IC31903	H1	IC33002	C1	IC33403	C1	IC33909	B6	IC54701	K4	Q54155	K2	SW30301	C4	TP30601	C3	TP54301	K6	TP54320	J4	TP54417	K1	TP54603	J4	VR33703	A3
IC30604	B3	IC31509	J2	IC32001	G3	IC33003	B1	IC33404	C1	IC33910	A5	IC54703	K4	Q54157	K2	SW30551	C1	TP30602	C2	TP54302	J4	TP54322	J6	TP54418	K2	TP54604	J4		
IC30605	B2	IC31601	I6	IC32002	G1	IC33101	E4	IC33405	C2	IC33911	A6	IC54704	K4	Q54161	J2	TG30001	F6	TP30701	D1	TP54303	J4	TP54323	K6	TP54419	J1	TP54606	J4		
IC30606	B2	IC31602	I6	IC32101	F2	IC33102	E4	IC33406	D1	IC34101	I5	IC54706	K4	Q54162	J2	TG30151	G4	TP30905	F1	TP54304	J4	TP54401	K2	TP54420	J1	TP54607	J4		
IC30607	A3	IC31603	I5	IC32102	E2	IC33103	E4	IC33407	C2	IC34102	I5	P34201	I5	Q54204	K3	TG30901	F1	TP30906	G2	TP54305	J4	TP54403	K2	TP54422	K1	TP54608	J4		
IC30608	A2	IC31604	I5	IC32201	F1	IC33104	E3	IC33408	D1	IC34103	H5	P34204	I2	Q54205	K3	TG31001	E2	TP31401	F2	TP54306	J4	TP54404	K2	TP54423	J1	TP54609	J4		
IC30609	B3	IC31702	J2	IC32202	E1	IC33105	D3	IC33505	A4	IC34104	H5	P34302	H5	Q54207	K3	TG31401	G1	TP31801	I3	TP54307	K6	TP54405	K2	TP54501	K3	TP54610	K3		

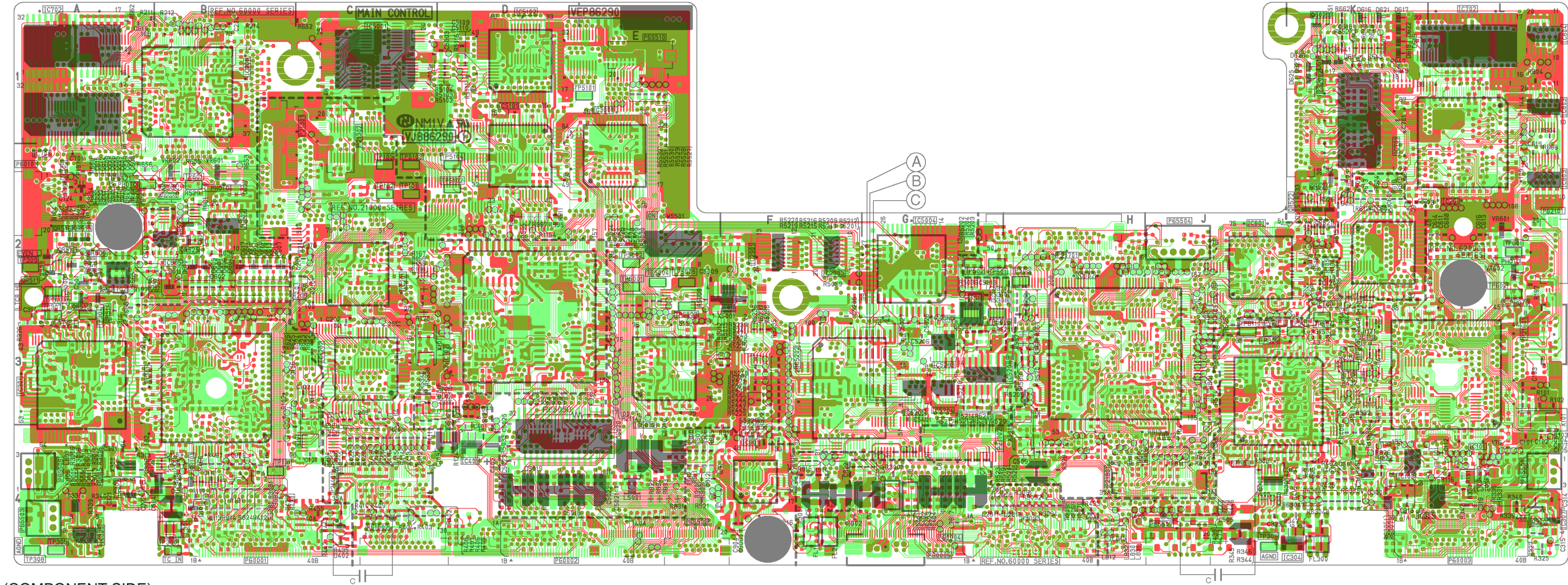


(FOIL SIDE)



MAIN CONTROL P.C. BOARD (VEP86290B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC21102	D3	IC60701	A1	IC65001	C1	P21801	J4	Q62300	L4	TG60001	G3	TP60602	A2	TP65103	C2
IC21201	C2	IC60702	A1	IC65002	E3	P60001	B4	Q62602	K1	TG60002	A2	TP61101	J3	TP65104	D2
IC21202	C3	IC62101	L3	IC65003	D4	P60002	D4	QR60101	B4	TP21101	C2	TP62301	K3	VR60601	B2
IC21401	D4	IC62103	K4	IC65004	G2	P60003	L4	QR60509	A2	TP21102	C2	TP62304	K3	VR60602	B2
IC21502	H3	IC62201	L2	IC65101	D2	P60004	H4	QR60510	A2	TP21103	C2	TP62305	J4	VR62601	L2
IC21601	J2	IC62301	J3	IC65102	D1	P60005	G4	QR60511	A2	TP21501	H2	TP62306	J3	VR62602	L2
IC21602	K2	IC62304	K4	IC65201	H3	P60101	A2	QR60512	A2	TP21502	G2	TP62307	K3	X21101	C3
IC21901	F4	IC62305	L4	IC65202	F3	P61002	C4	QR60513	A2	TP21503	H2	TP62601	L2	X21501	H4
IC60101	B3	IC62307	L4	IC65203	G3	P62002	K1	QR60514	A3	TP60101	B4	TP62602	L3	X60101	C4
IC60105	A2	IC62603	L2	IC65204	G3	P62101	L2	QR60515	A3	TP60300	B4	TP65001	E3	X60300	A4
IC60201	B1	IC62701	K1	IC65205	G3	P65503	A4	QR60516	A2	TP60304	A3	TP65002	E2	X62101	L3
IC60301	A3	IC62702	L1	P21301	B2	P65504	J2	QR60523	B2	TP60305	A4	TP65003	E3	X62300	J4
IC60305	A4	IC62803	L1	P21302	C1	P65506	E4	QR60525	B2	TP60307	A3	TP65004	E2	X65001	F3
IC60307	A4	IC62804	L1	P21401	C4	P65507	J4	QR62521	K2	TP60308	A4	TP65005	E2		
IC60308	B4	IC62901	F2	P21601	L3	P65508	A4	QR62522	K2	TP60309	A2	TP65006	H3		
IC60505	B2	IC62903	F2	P21701	H2	P65509	L4	QR62524	K2	TP60310	A3	TP65101	E1		
IC60602	B2	IC63001	E2	P21702	G4	P65510	E1	SW65501	E2	TP60601	B2	TP65102	D2		

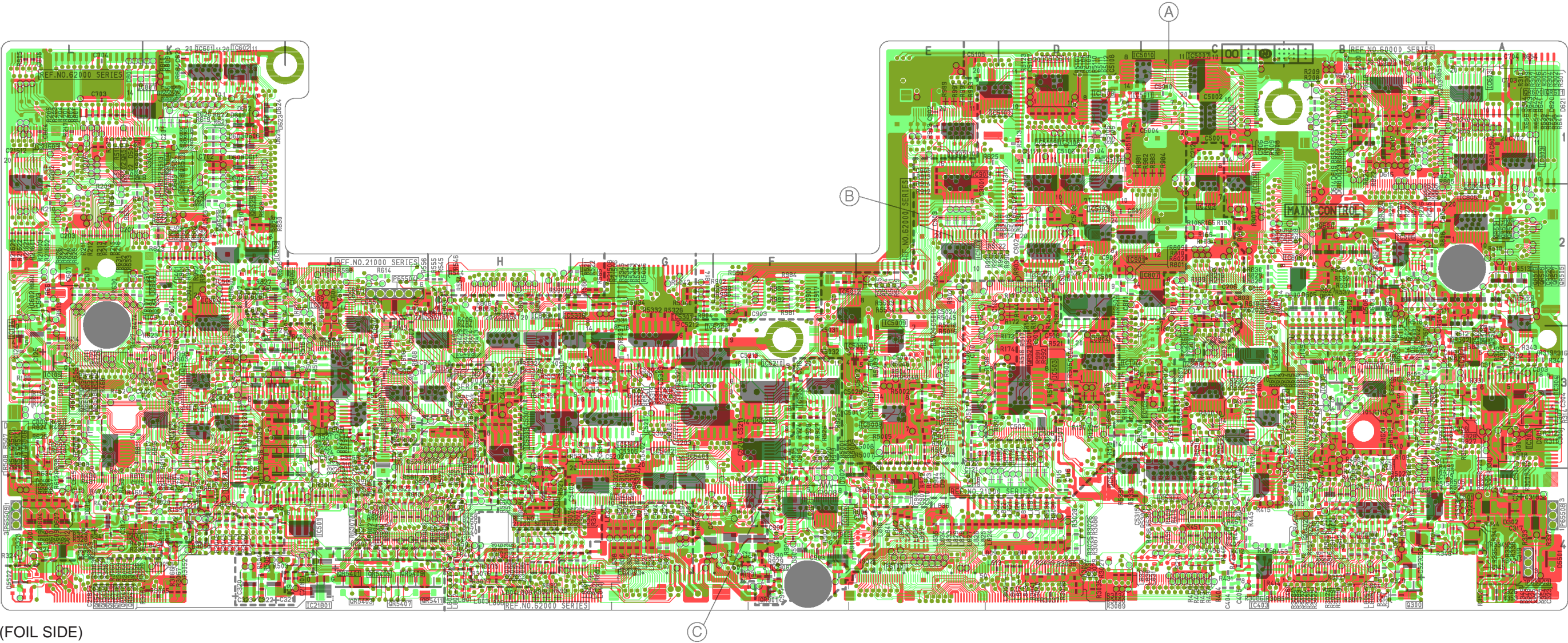


(COMPONENT SIDE)



MAIN CONTROL P.C. BOARD (VEP86290B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC21103	D3	IC60104	B3	IC60805	A2	IC62501	J4	IC65006	C1	IC65301	G3	QR60504	A2	QR62504	K3	QR65401	J4
IC21104	D3	IC60302	A3	IC60806	C3	IC62502	K3	IC65007	C1	IC65302	G3	QR60505	A2	QR62505	J3	QR65402	J4
IC21203	C2	IC60303	A3	IC60807	C2	IC62503	J3	IC65008	E3	IC65303	H3	QR60506	A2	QR62506	J3	QR65403	J4
IC21206	C2	IC60304	A3	IC60808	B4	IC62505	J3	IC65009	E3	IC65304	C4	QR60507	A2	QR62507	J4	QR65404	J4
IC21207	C2	IC60401	C3	IC60809	B2	IC62506	K2	IC65010	C1	IC65305	G3	QR60508	A2	QR62508	J3	QR65405	J4
IC21503	H4	IC60402	C3	IC60901	D2	IC62601	K1	IC65011	C1	IC65306	G3	QR60517	A2	QR62509	J3	QR65406	J4
IC21504	H4	IC60403	C4	IC60902	D2	IC62602	K1	IC65012	F2	IC65307	D3	QR60518	A2	QR62510	J3	QR65407	J4
IC21603	L2	IC60404	C4	IC60903	E2	IC62604	K2	IC65103	D2	IC65401	G4	QR60519	A2	QR62511	J4	QR65408	J4
IC21604	J3	IC60501	A4	IC60904	D3	IC62801	H3	IC65104	D2	IC65402	G4	QR60520	A2	QR62512	J3	QR65409	J4
IC21606	J2	IC60502	A2	IC60905	E2	IC62805	H3	IC65105	D1	IC65403	G4	QR60521	D3	QR62513	J3	QR65410	J4
IC21607	J2	IC60503	D3	IC60906	C2	IC62806	H3	IC65106	D2	P61001	E4	QR60522	B2	QR62514	J3	QR65411	H4
IC21801	J4	IC60504	D2	IC62102	K4	IC62807	K1	IC65107	D1	P62001	G4	QR60524	B2	QR62515	J4	QR65412	H4
IC21902	F4	IC60506	B2	IC62104	L3	IC62808	L3	IC65108	D1	Q60300	B4	QR60526	B2	QR62516	J3		
IC21903	F4	IC60601	B1	IC62105	L3	IC62809	K2	IC65109	D2	Q60601	B2	QR60600	B1	QR62517	J3		
IC21904	F4	IC60603	A1	IC62302	K4	IC62902	E1	IC65206	F4	QR21901	F4	QR60601	A1	QR62518	J3		
IC21905	F3	IC60604	B3	IC62401	K3	IC62904	K2	IC65207	G3	QR60402	B4	QR62401	L4	QR62519	J3		
IC21906	F4	IC60801	C3	IC62402	K3	IC62905	H3	IC65208	F3	QR60501	A2	QR62501	K3	QR62520	J3		
IC60102	B3	IC60803	A1	IC62403	H3	IC62906	J3	IC65209	G3	QR60502	A2	QR62502	K3	QR62523	K2		
IC60103	B3	IC60804	A1	IC62404	K3	IC65005	F3	IC65210	F3	QR60503	A2	QR62503	K3	QR62525	K2		

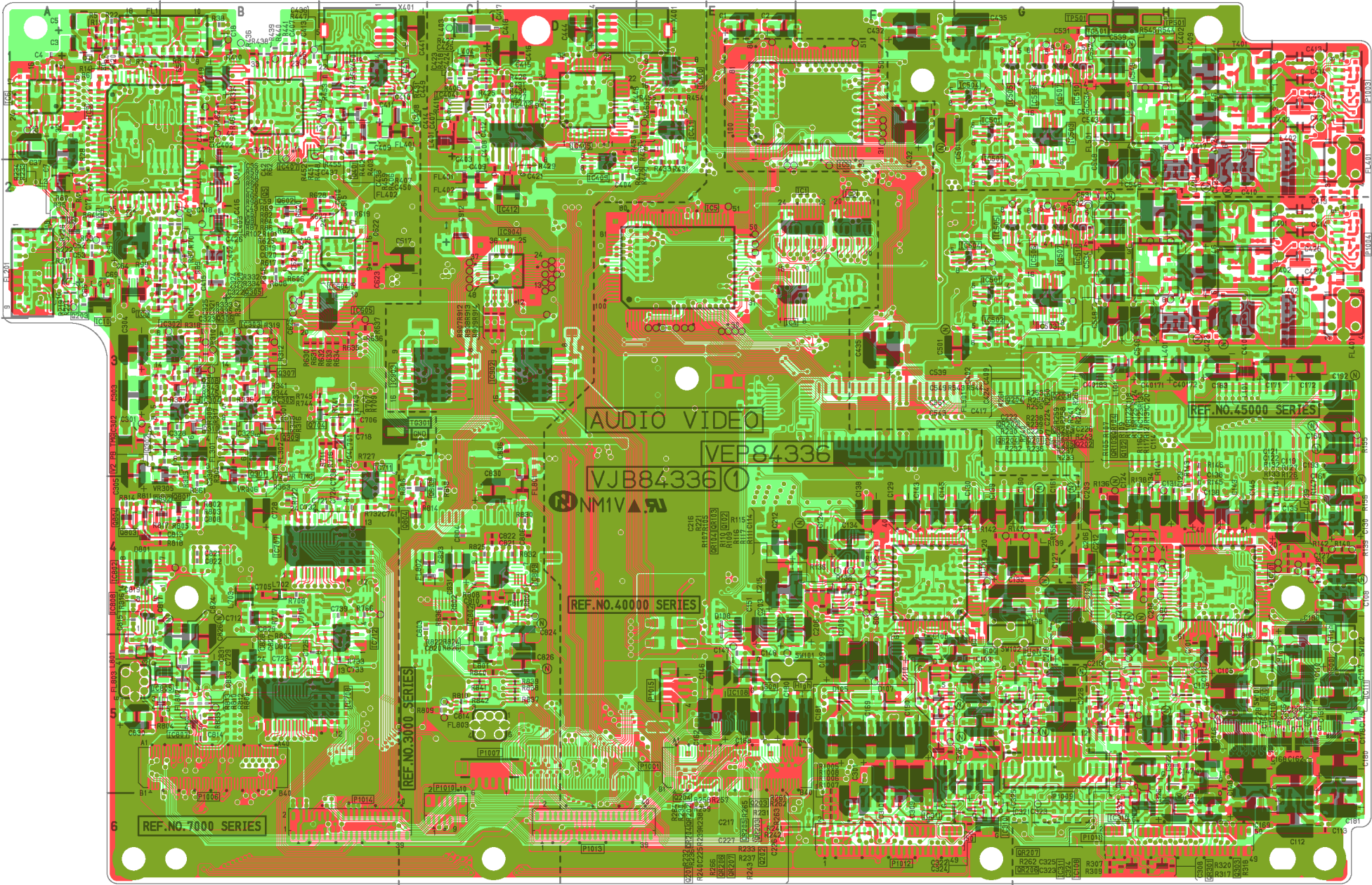


(FOIL SIDE)



AUDIO VIDEO P.C. BOARD (VEP84336B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3403	D1	IC40310	G6	IC45501	G2	IC7604	C2	P1012	F6	Q7004	A2	Q7803	A4	QR45301	H6
IC3404	C1	IC40311	F6	IC45502	G3	IC7605	C2	P1013	D6	Q7005	B2	Q7804	A4	SW40101	E5
IC3405	D1	IC40501	G1	IC45503	G2	IC7707	C4	P1014	C6	Q7006	A2	QR40103	F4	SW40102	G5
IC3409	D1	IC40502	G2	IC45504	G2	IC7708	B5	P1015	E5	Q7008	A2	QR40104	F4	SW45101	H5
IC3410	E1	IC40503	G1	IC45505	G2	IC7711	C4	Q3803	C4	Q7203	A2	QR40202	F5	SW45102	J5
IC3411	E1	IC40504	G1	IC45506	G2	IC7712	C5	Q3804	C4	Q7301	B3	QR40203	G5	TG40501	H1
IC3412	D2	IC40505	G1	IC45507	G2	IC7802	A4	Q40102	F4	Q7302	B3	QR40204	F5	TG7301	C3
IC3802	D4	IC40506	G1	IC45510	G2	IC7805	B5	Q40201	F5	Q7305	B3	QR40205	G5	TP40501	G1
IC3809	D4	IC40507	G1	IC7003	A1	IC7807	B5	Q40202	G5	Q7306	B3	QR40206	G5	TP45501	H1
IC3902	D3	IC40510	G1	IC7006	A1	IC7808	A4	Q40203	G5	Q7307	B3	QR40207	G5	VR7305	B3
IC3903	C3	IC45005	F1	IC7009	A2	P1001	E5	Q40204	F5	Q7308	B3	QR45103	H4	VR7306	B3
IC3904	D2	IC45101	H4	IC7010	A2	P1003	J1	Q45102	H4	Q7309	B3	QR45104	G4	X3401	E1
IC40001	F2	IC45108	H5	IC7302	B3	P1004	J2	Q45201	H5	Q7310	B3	QR45202	G5	X7401	C1
IC40002	F2	IC45109	J5	IC7303	B3	P1006	B5	Q45202	H5	Q7401	C1	QR45203	H5		
IC40004	E2	IC45110	J5	IC7304	B3	P1007	D5	Q45203	H5	Q7602	B2	QR45204	G5		
IC40005	E2	IC45111	J5	IC7305	B3	P1009	G5	Q45204	G5	Q7704	B3	QR45205	H5		
IC40101	F4	IC45310	H6	IC7407	B1	P1010	C6	Q45303	H6	Q7801	B4	QR45206	H5		
IC40108	E5	IC45311	H5	IC7411	C1	P1011	H6	Q7001	A1	Q7802	B4	QR45207	H5		

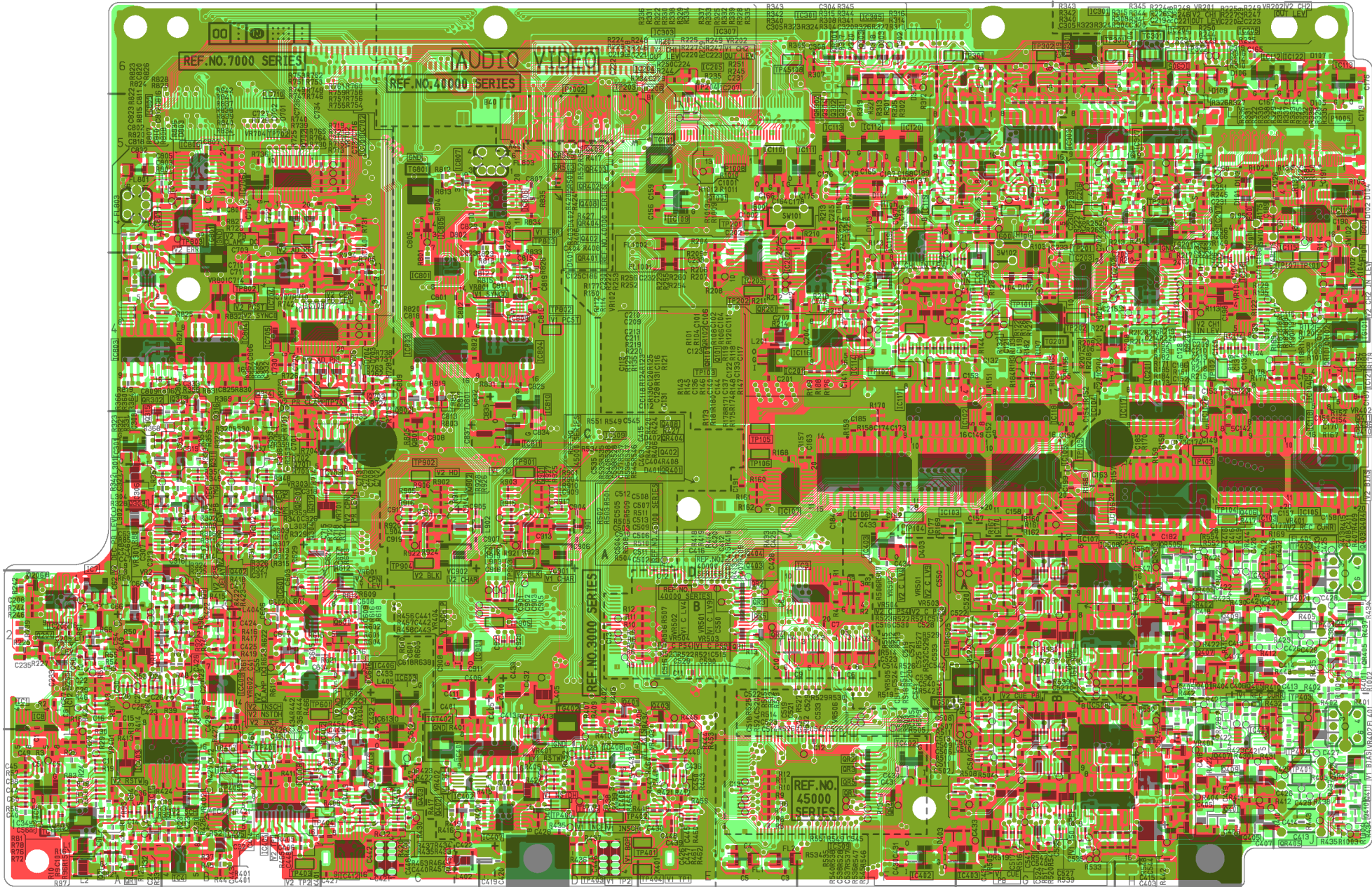


(COMPONENT SIDE)



AUDIO VIDEO P.C. BOARD (VEP84336B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3401	C1	IC40110	E5	IC40402	F1	IC45203	G4	IC7402	B1	IC7806	B5	Q40406	H2	Q7009	B2	QR40101	F4	QR45403	H2	TP3403	D1	TP40401	J1	TP7406	B1	VR40504	G1	VR7403	B1
IC3402	C1	IC40111	F5	IC40403	G1	IC45204	G5	IC7403	B1	IC7809	A4	Q40407	H1	Q7204	A2	QR40102	F4	QR45404	H2	TP3404	E1	TP40402	J1	TP7407	B1	VR40505	G1	VR7404	B1
IC3406	D1	IC40112	F5	IC40508	G1	IC45205	H5	IC7404	B1	P1002	D5	Q40408	H1	Q7205	A2	QR40201	E4	QR45405	J2	TP3405	D1	TP40403	J2	TP7601	B2	VR40506	G1	VR7601	B2
IC3407	D1	IC40113	F5	IC40509	G1	IC45206	H5	IC7405	B1	P1005	J5	Q40409	H1	Q7206	A2	QR40301	F6	QR45501	H2	TP3406	D1	TP45101	J4	TP7701	B4	VR45101	H4	VR7602	B2
IC3408	D1	IC40114	F4	IC45102	H4	IC45207	H5	IC7406	C1	P1008	E5	Q40410	J1	Q7303	B3	QR40302	F6	QR45503	H2	TP3802	D4	TP45102	H4	TP7702	B5	VR45102	J4	VR7701	B3
IC3801	C4	IC40115	F5	IC45103	H3	IC45301	G6	IC7408	B1	Q1001	E5	Q40411	J1	Q7304	B3	QR40401	H1	QR45505	H3	TP3803	D5	TP45103	H3	TP7802	B4	VR45201	H5	VR7702	B4
IC3803	C4	IC40116	F4	IC45104	J4	IC45303	G5	IC7409	B2	Q3401	D2	Q40412	J1	Q7311	B3	QR40402	H1	QR7001	A1	TP3901	D3	TP45104	H3	TP7803	B4	VR45202	H5	VR7703	B4
IC3804	D4	IC40117	F3	IC45105	J3	IC45305	H6	IC7410	C1	Q3402	C1	Q45101	J4	Q7312	B3	QR40403	H1	QR7301	B3	TP3902	C3	TP45105	G3	VC3901	D3	VR45401	H2	VR7704	B5
IC3805	C5	IC40118	G3	IC45106	H3	IC45307	H5	IC7412	B1	Q3403	E2	Q45401	H2	Q7313	B4	QR40404	H1	QR7302	A3	TP3903	D3	TP45107	J4	VC3902	C3	VR45402	J2	VR7801	B4
IC3806	D5	IC40119	F5	IC45107	G3	IC45401	H2	IC7601	B2	Q3801	C3	Q45402	H2	Q7314	B4	QR40405	J1	TG3402	D1	TP3904	C3	TP45108	E6	VR3401	D1	VR45501	G3		
IC3807	C5	IC40120	F5	IC45112	H6	IC45402	F1	IC7603	C2	Q3802	C4	Q45403	J2	Q7315	A3	QR40501	H1	TG3801	C5	TP3905	D2	TP45201	G5	VR3402	D1	VR45502	G3		
IC3808	D4	IC40201	E4	IC45113	J6	IC45403	F3	IC7606	B2	Q3901	D3	Q45404	J2	Q7316	B3	QR40503	H1	TG40101	E5	TP40101	G4	TP45202	G4	VR3403	E1	VR45503	G2		
IC3810	D4	IC40202	F4	IC45114	H4	IC45508	G2	IC7701	C4	Q3902	C3	Q45405	H2	Q7402	B2	QR40505	H2	TG40201	G4	TP40102	F4	TP45203	G5	VR3404	D1	VR45504	G2		
IC3811	D3	IC40203	E4	IC45115	J5	IC45509	G2	IC7702	C4	Q40101	F4	Q45406	H3	Q7403	C1	QR45001	F1	TG40301	G6	TP40103	F4	TP45204	H5	VR3801	C4	VR45505	G2		
IC3901	C2	IC40204	G5	IC45116	H5	IC7701	A1	IC7703	B3	Q40301	F6	Q45407	H2	Q7601	B2	QR45002	F1	TG45101	J4	TP40104	F3	TP45301	G6	VR40101	F4	VR45506	G2		
IC40003	F2	IC40205	G5	IC45117	H4	IC7704	B1	IC7704	B4	Q40302	F6	Q45408	H2	Q7701	B3	QR45003	F1	TG45201	H5	TP40105	E3	TP45302	H6	VR40102	G4	VR7001	A2		
IC40102	G4	IC40206	G5	IC45118	J3	IC7705	A1	IC7705	B4	Q40303	F6	Q45409	H2	Q7702	B5	QR45004	F1	TG45301	H6	TP40106	E3	TP45401	J2	VR40201	G5	VR7002	B2		
IC40103	F3	IC40207	G5	IC45119	J5	IC7707	A2	IC7706	B5	Q40304	F6	Q45410	J2	Q7703	C4	QR45005	F1	TG45501	G2	TP40201	E5	TP45402	J2	VR40202	G5	VR7301	B3		
IC40104	G4	IC40301	G6	IC45120	H4	IC7708	A1	IC7709	B4	Q40401	H1	Q45411	J2	QR40001	E2	QR45101	J4	TG7001	A1	TP40202	E4	TP45403	J3	VR40401	H1	VR7302	B3		
IC40105	G3	IC40303	G5	IC45121	J4	IC7711	A1	IC7710	B5	Q40402	H1	Q45412	J2	QR40002	E2	QR45102	J4	TG7402	C1	TP40203	F5	TP7401	B1	VR40402	J1	VR7303	B3		
IC40106	F3	IC40305	G6	IC45122	J6	IC7206	A2	IC7801	B5	Q40403	J1	Q7002	A1	QR40003	E2	QR45201	H4	TG7801	B4	TP40204	G5	TP7403	B1	VR40501	G2	VR7304	B3		
IC40107	E3	IC40307	G5	IC45201	H4	IC7301	A3	IC7803	A4	Q40404	J1	Q7003	A2	QR40004	E2	QR45401	H2	TP3401	E1	TP40301	F6	TP7404	B1	VR40502	G2	VR7401	A1		
IC40109	E5	IC40401	H1	IC45202	H4	IC7401	B1	IC7804	B4	Q40405	H1	Q7007	B2	QR40005	E2	QR45402	H2	TP3402	D1	TP40302	G6	TP7405	B1	VR40503	G1	VR7402	B1		

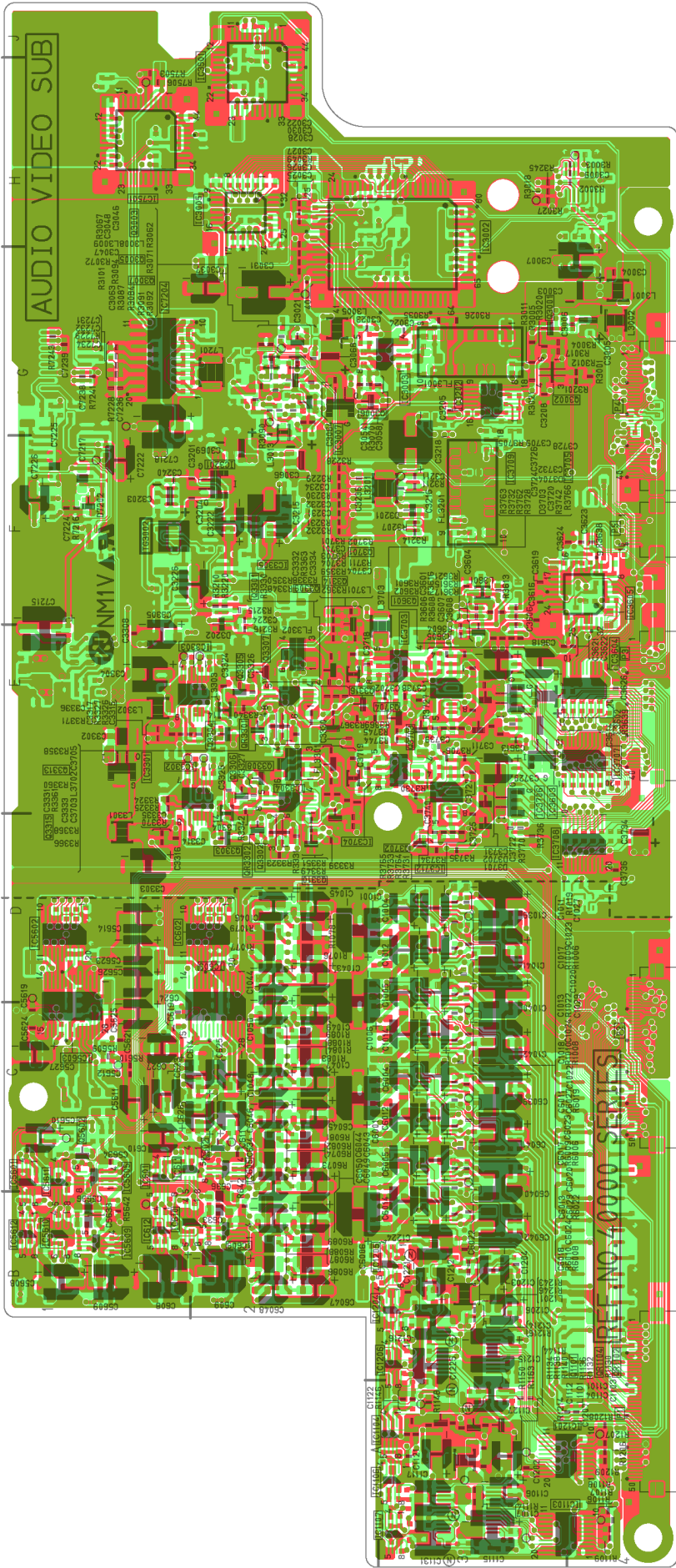


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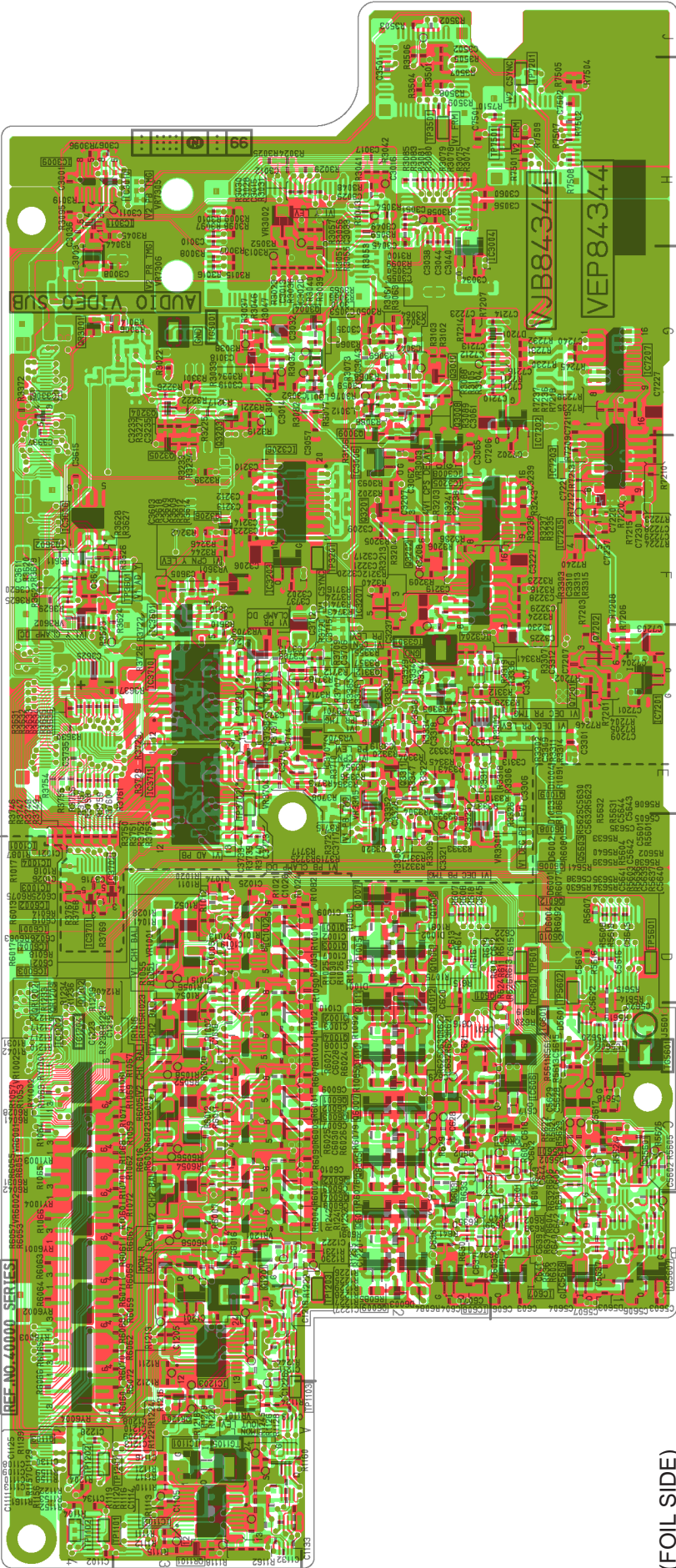
AD/VD SUB P.C. BOARD (VEP84344B)

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IC3002	G3	IC3705	E3	IC41107	A3	P3	E4	Q3309	E2	QR41104	A3
IC3003	G3	IC3706	E3	IC41201	A4	P4	G4	Q3310	D2	TG3002	F1
IC3005	H2	IC3707	E4	IC41204	B3	P5	F4	Q3313	E2		
IC3007	G2	IC3708	D4	IC41205	B3	Q3001	G3	Q3314	E2		
IC3201	F2	IC3709	E3	IC41206	B3	Q3002	G3	Q3315	D2		
IC3202	G3	IC3712	E3	IC45601	C1	Q3003	G2	Q3316	E2		
IC3301	E1	IC40601	C1	IC45602	D1	Q3005	G2	Q3601	E3		
IC3302	E2	IC40602	D2	IC45603	D1	Q3006	G2	Q3701	F2		
IC3303	E2	IC40603	D2	IC45605	C1	Q3007	G2	Q3702	D3		
IC3304	E2	IC40605	C2	IC45609	B1	Q3301	E2	Q3703	E3		
IC3305	E2	IC40609	B2	IC45610	B1	Q3302	D2	Q3704	E3		
IC3501	H2	IC40610	B2	IC45611	C1	Q3303	D2	Q40602	C2		
IC3603	E3	IC40611	C2	IC45612	B1	Q3304	E2	Q41101	A3		
IC3604	E4	IC40612	B1	IC7204	G1	Q3305	E2	Q45602	C1		
IC3605	F4	IC41103	A4	IC7501	H1	Q3306	E2	QR3301	E2		
IC3703	E3	IC41104	A3	P1	A4	Q3307	E2	QR3302	D2		
IC3704	E3	IC41106	A3	P2	C4	Q3308	E2	QR41102	A3		



(COMPONENT SIDE)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3004	G2	IC3711	E3	IC46003	B3	Q3311	E2	Q41103	A3	TP3601	F4
IC3006	F2	IC40606	C1	IC46004	C3	Q3312	E2	Q41201	B3	TP3701	E3
IC3008	F2	IC40607	B1	IC7201	E1	Q3602	F4	Q41202	B3	TP3702	E3
IC3009	H4	IC40608	B2	IC7202	G1	Q40601	C2	Q45601	C1	TP40601	D1
IC3010	H4	IC41001	D3	IC7203	F1	Q40603	B2	Q45603	B1	TP40602	D1
IC3011	H4	IC41002	D3	IC7205	F1	Q41001	D3	Q46001	C3	TP41101	A4
IC3203	F3	IC41003	C3	IC7207	G1	Q41002	C3	Q46002	C3	TP41102	A3
IC3204	F2	IC41004	C3	Q3004	G2	Q41003	D3	Q46003	C3	TP41103	A3
IC3205	F2	IC41101	A3	Q3008	G2	Q41004	C3	Q46004	B3	TP41201	A4
IC3206	F3	IC41102	A3	Q3009	F2	Q41005	D2	Q46005	C2	TP41202	A4
IC3207	F2	IC41202	B3	Q3010	G2	Q41006	D2	Q46006	C2	TP41203	E3
IC3306	G4	IC41203	B3	Q3201	F2	Q41007	D2	Q46007	C2	TP41203	E3
IC3601	F3	IC45606	C1	Q3202	F2	Q41008	D2	Q46008	C2	TP45601	D1
IC3606	F4	IC45607	B1	Q3203	G3	Q41009	C2	Q46009	B2	TP7201	H1
IC3701	D4	IC45608	B1	Q3204	G3	Q41010	C2	Q46010	B2	TP7501	H1
IC3702	D4	IC46001	C3	Q3205	F3	Q41011	C2	Q46011	B2	TP3201	F2
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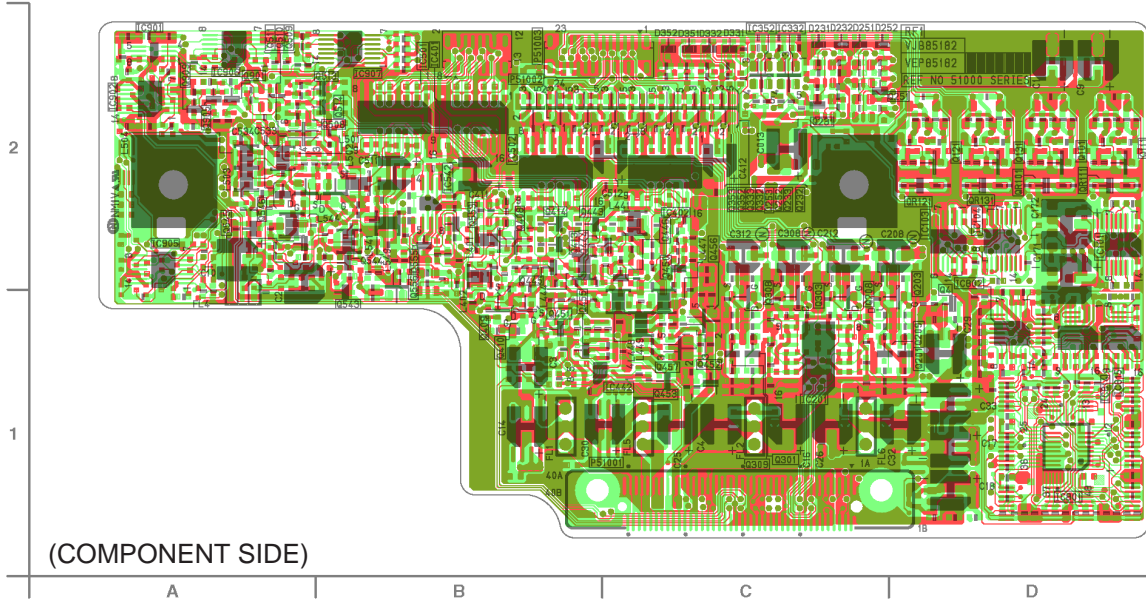


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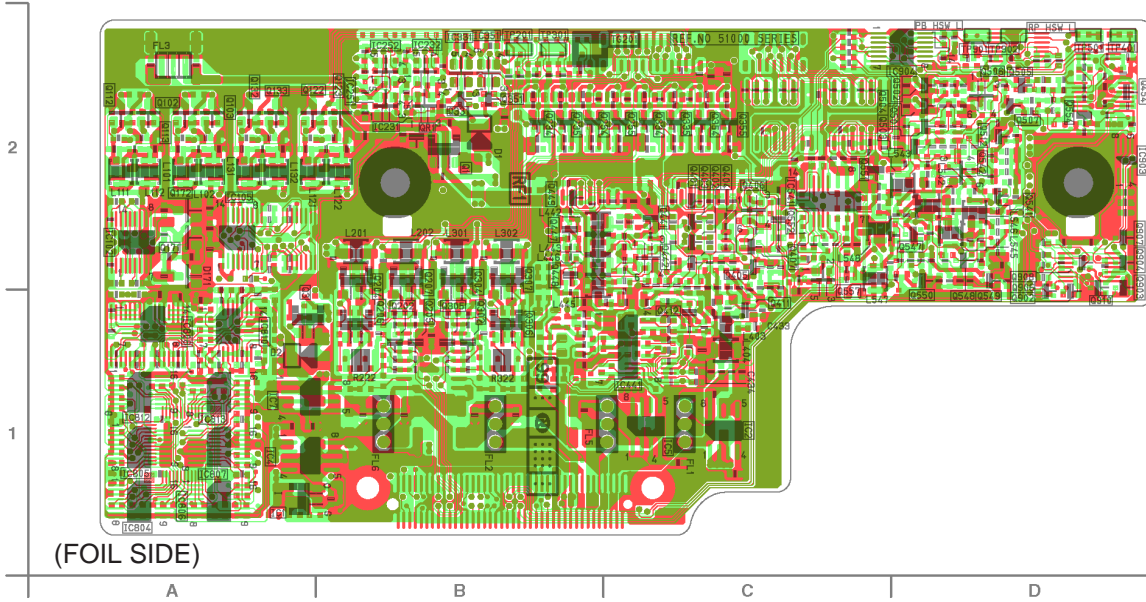


RF AMP 1 P.C. BOARD (VEP85182A)

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IC51103	D2	IC51542	B2	P51001	C1	Q51208	C1	Q51308	C1	Q51414	B2	Q51456	C1	Q51545	A2	QR51121	D2
IC51104	D2	IC51801	D1	P51002	B2	Q51209	C1	Q51309	C1	Q51443	B2	Q51457	C1	Q51546	A2	QR51131	D2
IC51201	C1	IC51802	D1	P51003	B2	Q51231	C2	Q51332	C2	Q51444	B2	Q51508	A2	Q51553	B2		
IC51332	C2	IC51814	D1	Q51004	D1	Q51232	C2	Q51333	B2	Q51445	B2	Q51509	B2	Q51555	B2		
IC51352	C2	IC51815	D1	Q51101	D2	Q51233	C2	Q51352	B2	Q51446	C1	Q51510	A2	Q51556	B1		
IC51401	B2	IC51901	A2	Q51111	D2	Q51251	C2	Q51353	B2	Q51450	C2	Q51511	A2	Q51901	A2		
IC51402	C2	IC51902	A2	Q51121	D2	Q51252	C2	Q51408	B2	Q51451	B1	Q51513	B2	Q51905	A2		
IC51442	B1	IC51905	A2	Q51131	D2	Q51253	C2	Q51409	B1	Q51452	C1	Q51514	B2	Q51909	A2		
IC51501	B2	IC51906	A2	Q51201	D1	Q51301	C1	Q51410	B1	Q51453	C1	Q51543	B1	QR51101	D2		

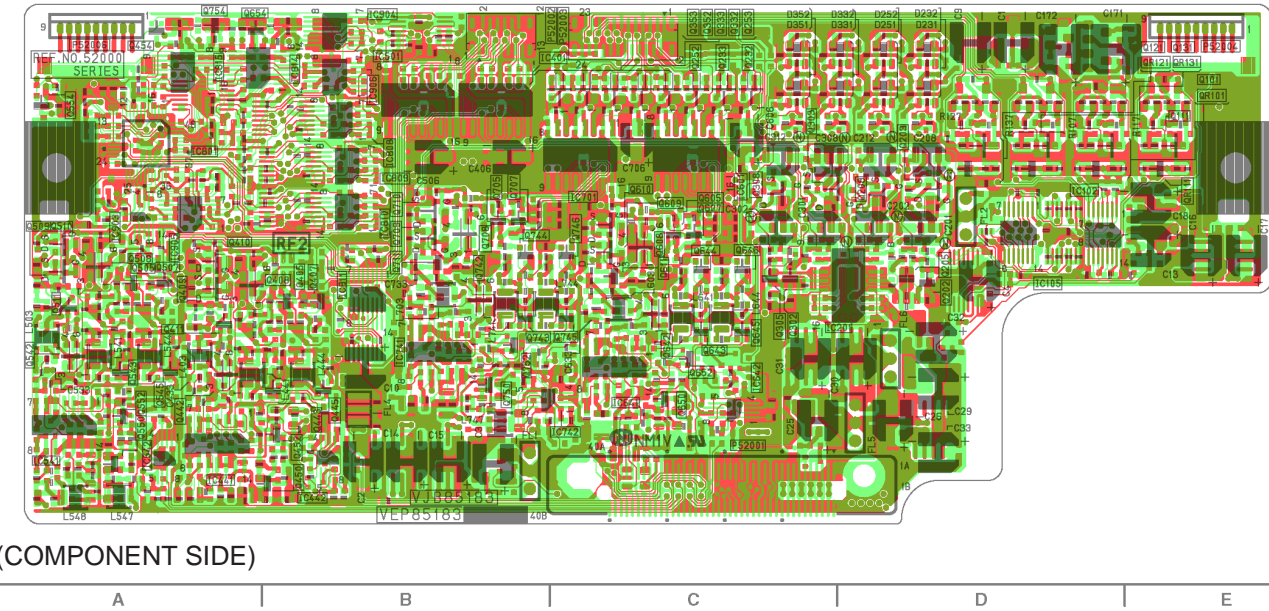


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IC51001	A1	IC51351	B2	IC51904	D2	Q51172	A2	Q51305	B1	Q51404	C2	Q51501	D2	Q51549	D1	Q51910	D1
IC51002	C1	IC51441	C1	Q51001	B2	Q51202	B1	Q51306	B1	Q51405	C2	Q51502	D2	Q51550	D1	QR51001	B2
IC51004	A1	IC51541	C2	Q51003	A1	Q51204	B1	Q51307	B1	Q51406	C2	Q51503	D2	Q51551	D2	TP51201	B2
IC51005	C1	IC51804	A1	Q51102	A2	Q51205	B1	Q51331	B2	Q51407	C2	Q51504	D2	Q51552	C2	TP51201	B2
IC51007	A1	IC51805	A1	Q51103	A2	Q51206	B1	Q51334	C2	Q51411	C1	Q51505	D2	Q51554	D2	TP51301	B2
IC51102	A2	IC51806	A1	Q51112	A2	Q51207	B1	Q51335	C2	Q51412	C1	Q51506	D2	Q51557	C2	TP51401	D2
IC51105	A2	IC51807	A1	Q51113	A2	Q51234	B2	Q51351	B2	Q51441	C2	Q51507	D2	Q51902	D1	TP51501	D2
IC51231	B2	IC51808	A1	Q51122	A2	Q51235	B2	Q51354	C2	Q51442	C2	Q51512	D2	Q51903	D1	TP51901	D2
IC51232	B2	IC51810	A1	Q51123	B2	Q51254	B2	Q51355	C2	Q51447	B2	Q51541	D2	Q51904	D2	TP51902	D2
IC51251	B2	IC51812	A1	Q51132	A2	Q51255	C2	Q51401	C2	Q51448	B2	Q51542	D2	Q51906	D1		
IC51252	B2	IC51813	A1	Q51133	A2	Q51302	B1	Q51402	C2	Q51449	B2	Q51547	D2	Q51907	D2		
IC51331	B2	IC51903	D2	Q51171	A2	Q51304	B1	Q51403	C2	Q51454	D2	Q51548	D2	Q51908	D2		

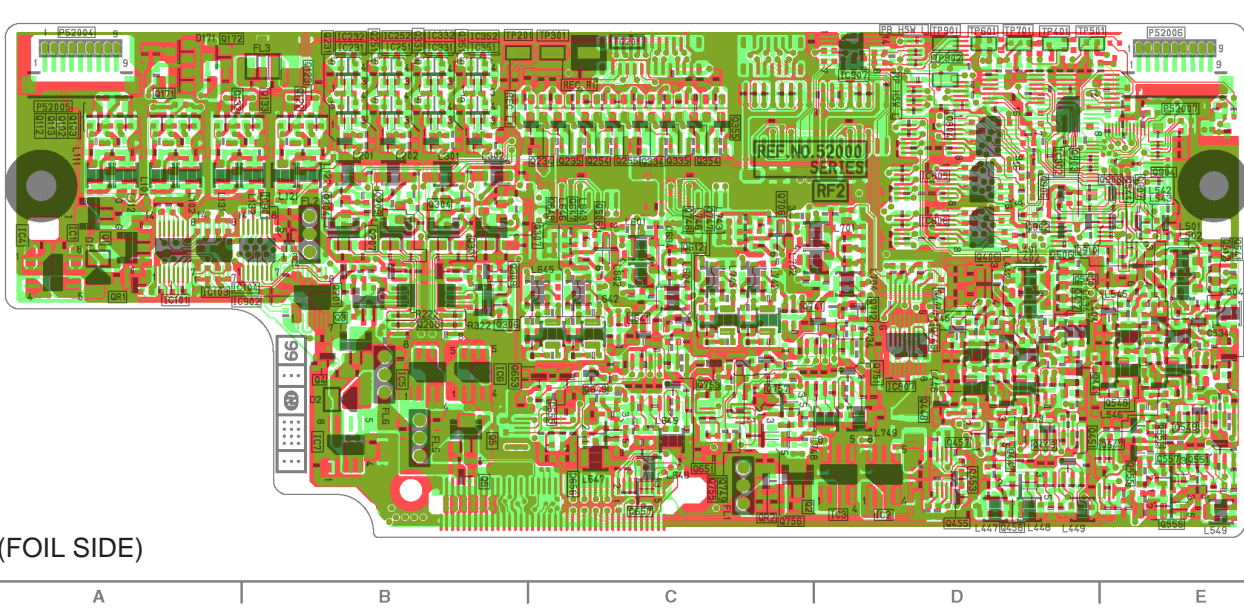


RF AMP 2 P.C. BOARD (VEP85183A)

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IC52105	D2	IC52741	B1	IC52906	B2	Q52205	D2	Q52352	C2	Q52452	B1	Q52552	A1	Q52646	C2	Q52744	B2
IC52201	D2	IC52742	C1	P52001	C1	Q52208	D2	Q52353	C2	Q52454	A2	Q52554	A2	Q52650	C1	Q52745	C1
IC52401	B2	IC52801	A2	P52002	B2	Q52232	C2	Q52405	B1	Q52505	A2	Q52605	C2	Q52652	C1	Q52746	C2
IC52441	A1	IC52808	B2	P52003	C2	Q52233	C2	Q52407	B1	Q52507	A2	Q52607	C2	Q52654	A2	Q52750	B1
IC52442	B1	IC52809	B2	P52004	E2	Q52252	C2	Q52408	A2	Q52508	A2	Q52608	C2	Q52705	B2	Q52752	B1
IC52501	B2	IC52810	B2	P52006	A2	Q52253	C2	Q52409	A2	Q52509	A2	Q52609	C2	Q52707	B2	Q52754	A2
IC52541	A1	IC52811	B1	Q52101	D2	Q52302	C2	Q52410	A2	Q52510	A2	Q52610	C2	Q52708	B2	QR52101	D2
IC52542	A1	IC52814	A2	Q52111	E2	Q52303	C2	Q52411	A1	Q52511	A1	Q52611	C2	Q52709	B2	QR52111	E2
IC52601	C2	IC52815	A2	Q52121	D2	Q52305	C2	Q52442	A1	Q52542	A1	Q52642	C1	Q52710	B2	QR52121	D2
IC52641	C1	IC52903	A2	Q52131	D2	Q52308	C2	Q52443	B1	Q52543	A1	Q52643	C1	Q52711	B2	QR52131	D2
IC52642	C1	IC52904	B2	Q52202	D2	Q52332	C2	Q52445	B1	Q52545	A1	Q52644	C2	Q52742	B1		



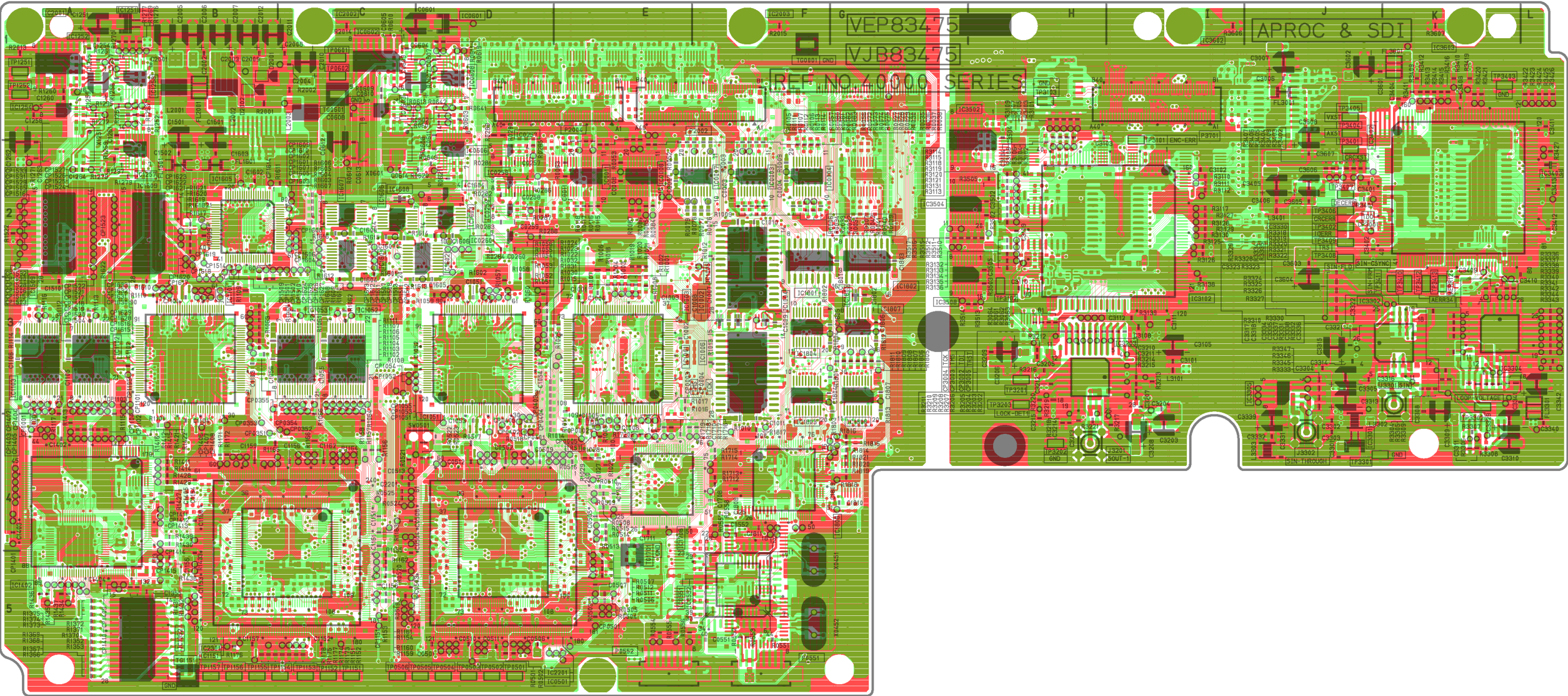
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IC52001	A2	IC52332	B2	Q52003	B1	Q52204	B2	Q52331	B2	Q52453	D1	Q52556	E1	Q52741	D1	Q52910	E2
IC52002	D1	IC52351	B2	Q52004	B1	Q52206	B1	Q52334	C2	Q52455	D1	Q52557	E1	Q52747	C1	QR52001	A1
IC52003	D1	IC52352	B2	Q52005	B1	Q52207	B2	Q52335	C2	Q52456	D1	Q52558	C2	Q52748	C1	QR52002	C1
IC52004	A1	IC52802	D2	Q52006	B1	Q52209	B1	Q52351	B2	Q52457	D1	Q52559	C1	Q52749	C1	TP52201	C2
IC52005	B1	IC52804	D2	Q52102	A2	Q52231	B2	Q52354	C2	Q52506	E2	Q52641	C1	Q52751	D1	TP52201	C2
IC52006	B1	IC52805	D2	Q52103	A2	Q52234	C2	Q52355	C2	Q52512	E1	Q52647	C1	Q52753	C1	TP52301	C2
IC52007	B1	IC52806	D2	Q52112	A2	Q52235	C2	Q52406	D1	Q52541	E1	Q52648	C1	Q52755	C1	TP52401	D2
IC52101	A2	IC52807	D1	Q52113	A2	Q52251	B2	Q52412	D1	Q52544	E1	Q52649	C1	Q52756	C1	TP52501	E2
IC52103	A2	IC52901	B2	Q52122	B2	Q52254	C2	Q52441	D1	Q52546	E1	Q52651	C1	Q52757	C1	TP52601	D2
IC52104	B2	IC52902	B1	Q52123	B2	Q52255	C2	Q52444	D1	Q52547	E1	Q52653	C1	Q52902	D2	TP52701	D2
IC52231	B2	IC52907	D2	Q52132	A2	Q52301	B1	Q52446	D1	Q52548	E1	Q52655	C1	Q52903	D2	TP52901	D2
IC52232	B2	P52005	A2	Q52133	B2	Q52304	B2	Q52447	D1	Q52549	E1	Q52656	C1	Q52904	E2	TP52902	D2
IC52251	B2	P52007	E2	Q52171	A2	Q52306	B1	Q52448	D1	Q52551	E1	Q52657	C1	Q52906	D2		
IC52252	B2	Q52001	A2	Q52172	A2	Q52307	B2	Q52449	D1	Q52553	E1	Q52706	C2	Q52907	E2		
IC52331	B2	Q52002	C1	Q52201	B1	Q52309	B1	Q52451	D1	Q52555	E1	Q52712	D1	Q52908	E2		





A PROC & SDI P.C. BOARD (VEP83475A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3102	I2	IC40003	F2	IC40602	C1	IC41101	B3	IC41602	D2	IC41805	G3	P42004	E1	TP3302	K3	TP3413	K3	TP41155	B5
IC3203	H3	IC40004	F2	IC40603	C1	IC41102	A3	IC41603	D2	IC41806	G3	SW40501	D4	TP3401	J2	TP40501	D5	TP41156	B5
IC3301	J4	IC40007	F2	IC40606	D2	IC41103	A3	IC41604	D2	IC41807	G3	TG40001	F1	TP3402	J2	TP40502	D5	TP41157	B5
IC3302	K3	IC40008	E2	IC40608	D1	IC41151	C4	IC41605	B2	IC41808	F4	TG40601	C1	TP3403	K1	TP40503	D5	TP41251	A1
IC3304	K3	IC40011	E2	IC41001	E3	IC41251	A1	IC41606	C2	IC42001	A1	TG41151	B5	TP3404	J1	TP40504	D5	TP41252	A1
IC3305	J3	IC40257	D2	IC41002	F3	IC41252	A1	IC41607	C2	IC42002	C1	TG41701	E4	TP3405	J1	TP40505	D5	X40451	F5
IC3402	K2	IC40258	D2	IC41003	F3	IC41254	A1	IC41608	C2	IC42003	F1	TP3101	I2	TP3406	J2	TP40506	C5	X40452	F5
IC3403	L2	IC40259	D2	IC41004	F3	IC41257	A2	IC41609	B2	IC42201	D4	TP3102	H3	TP3407	J2	TP40601	C1	X40601	C2
IC3502	H2	IC40260	D2	IC41005	F2	IC41258	A1	IC41708	E4	IC42301	C4	TP3103	H1	TP3408	J2	TP40602	C1	X41251	A2
IC3504	G2	IC40501	D4	IC41006	F3	IC41352	A5	IC41801	F2	P3701	I1	TP3201	H3	TP3409	J2	TP41151	C5		
IC3508	G2	IC40551	F5	IC41051	D3	IC41402	A4	IC41802	G2	P40551	F5	TP3202	H4	TP3410	K3	TP41152	C5		
IC3602	I1	IC40552	F5	IC41052	C3	IC41509	A2	IC41803	F3	P40552	E5	TP3203	H3	TP3411	K3	TP41153	C5		
IC3603	K1	IC40601	D1	IC41053	C3	IC41601	C2	IC41804	F3	P42002	F1	TP3301	K4	TP3412	K3	TP41154	C5		

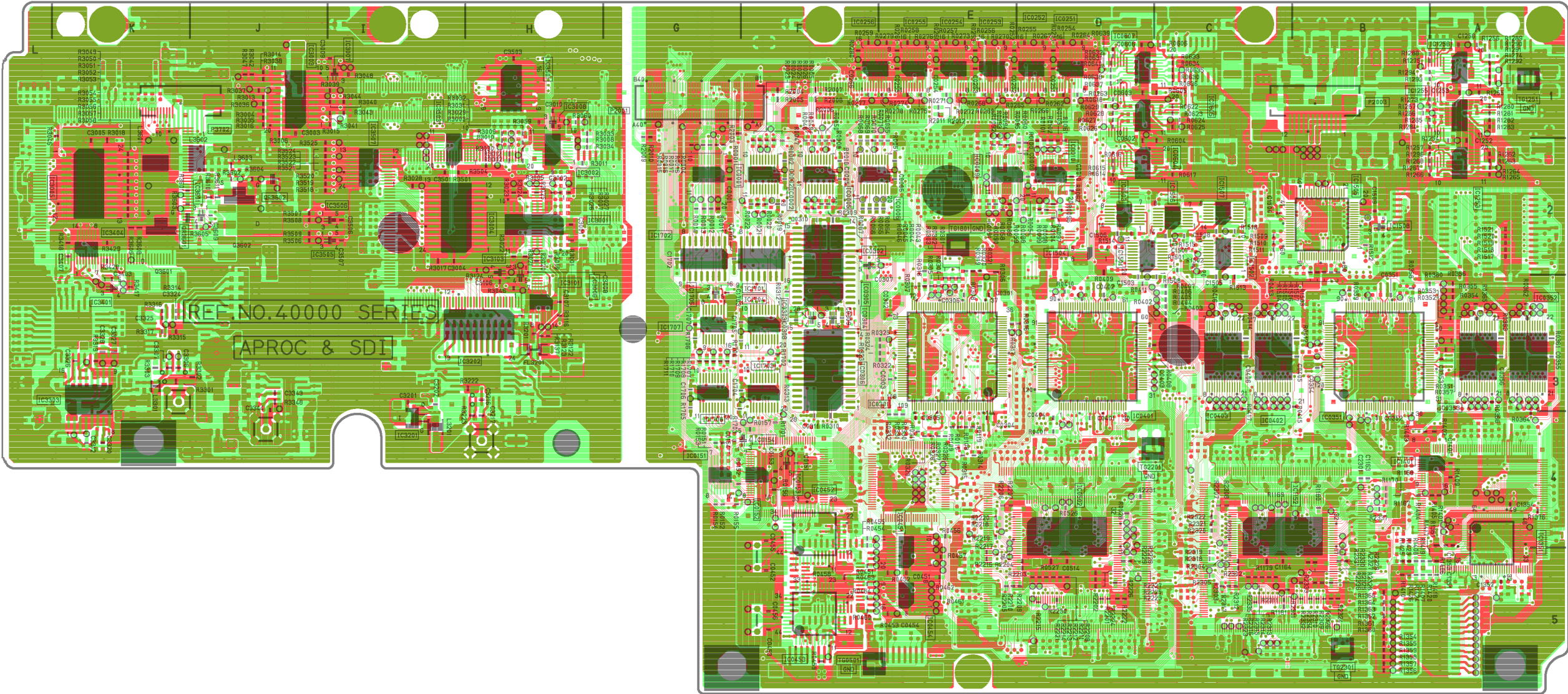


(COMPONENT SIDE)



A PROC & SDI P.C. BOARD (VEP83475A)

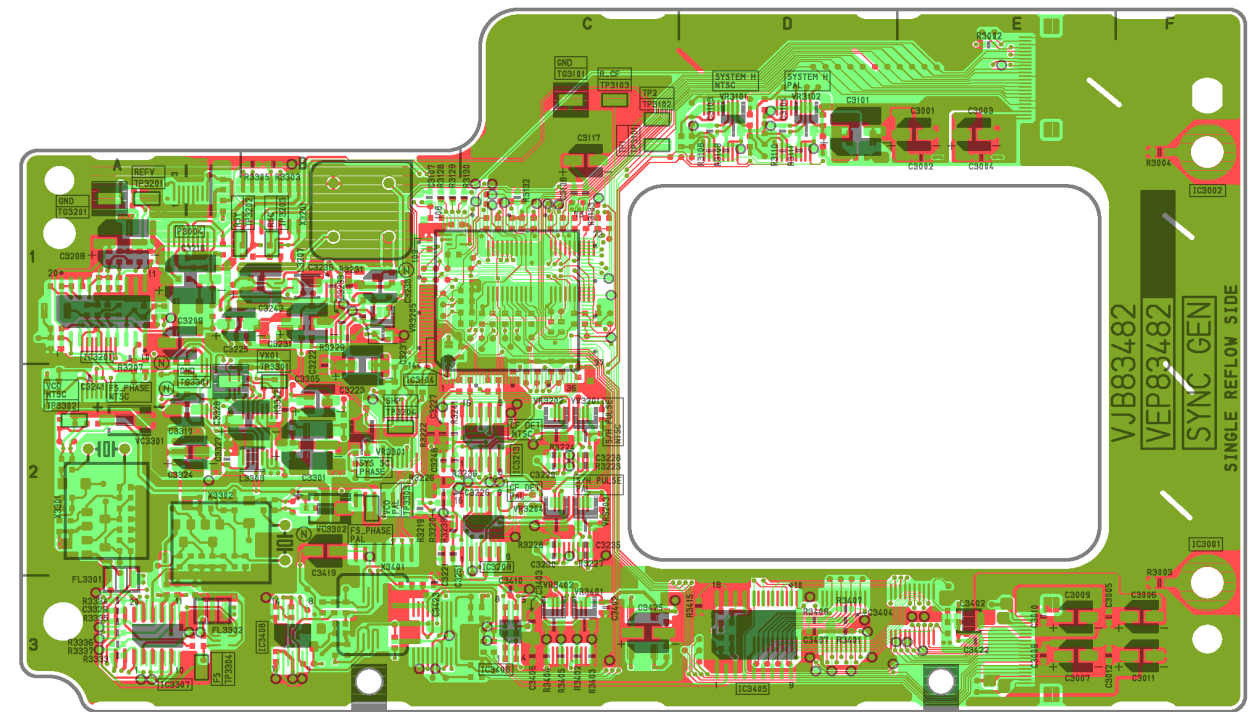
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IC3001	H2	IC3401	K3	IC40010	D2	IC40303	F3	IC40454	E5	IC41503	D2	P3702	K1
IC3002	H2	IC3404	K2	IC40151	G4	IC40304	F3	IC40502	D4	IC41504	D2	P42001	G1
IC3003	J1	IC3501	H1	IC40152	F4	IC40305	F2	IC40604	D2	IC41505	B2	P42003	B1
IC3004	I2	IC3503	I2	IC40153	F4	IC40306	F3	IC40605	D1	IC41506	C2	Q3601	K2
IC3005	K2	IC3505	I2	IC40154	F4	IC40351	B3	IC40607	D1	IC41507	C2	Q3602	J2
IC3006	H3	IC3506	I2	IC40251	D1	IC40352	A3	IC41152	C4	IC41508	B2	QR3601	K2
IC3007	I1	IC3507	I2	IC40252	D1	IC40353	A3	IC41253	A2	IC41701	F2	QR3602	J2
IC3008	H1	IC3601	J2	IC40253	E1	IC40401	D3	IC41255	A1	IC41702	G2	TG40501	F5
IC3101	H3	IC40001	G2	IC40254	E1	IC40402	C3	IC41256	A1	IC41703	F3	TG41251	A1
IC3103	H2	IC40002	F2	IC40255	E1	IC40403	C3	IC41351	A4	IC41704	F3	TG41801	E2
IC3201	I4	IC40005	F2	IC40256	F1	IC40451	E5	IC41401	A4	IC41705	G3	TG42201	D4
IC3202	H3	IC40006	F2	IC40301	E3	IC40452	F4	IC41501	D2	IC41706	G3	TG42301	B5
IC3303	K3	IC40009	E2	IC40302	F2	IC40453	F5	IC41502	C2	IC41707	G3		



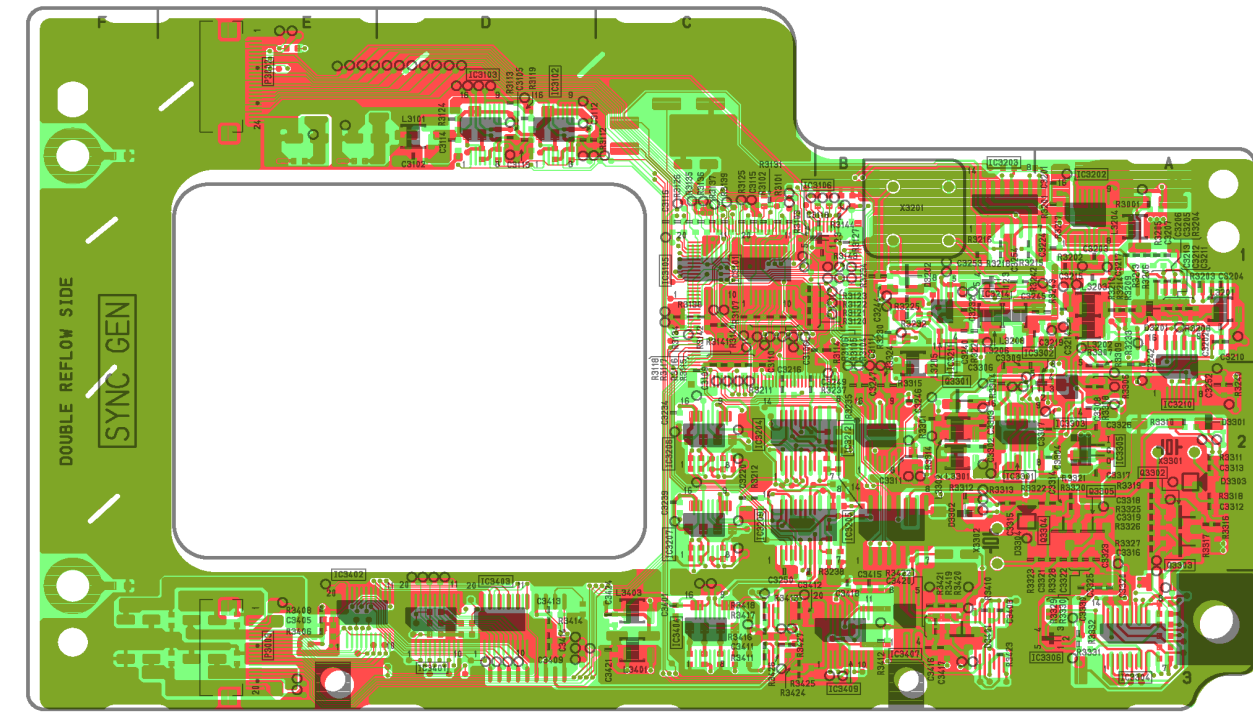
(FOIL SIDE)



SG P.C. BOARD (VEP83482B)



(COMPONENT SIDE)

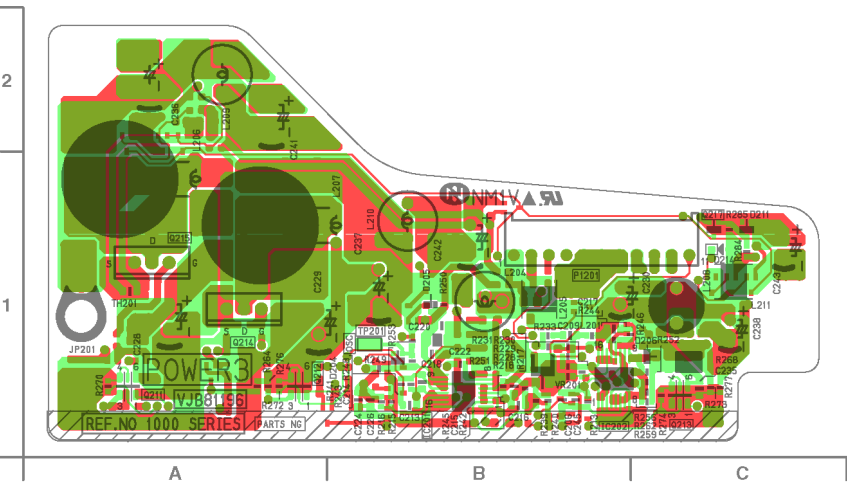


(FOIL SIDE)

REF	LOC
IC3001	F3
IC3002	F1
IC3104	C1
IC3201	A1
IC3208	C2
IC3213	C2
IC3307	A3
IC3405	D3
IC3406	C3
IC3408	B3
P3004	A1
TG3101	C1
TG3201	A1
TG3301	A2
TP3101	C1
TP3102	C1
TP3103	C1
TP3201	A1
TP3202	A1
TP3203	A1
TP3204	B2
TP3301	A2
TP3302	A2
TP3303	B2
TP3304	A3
VC3301	A2
VC3302	B2
VR3101	D1
VR3102	D1
VR3201	C2
VR3202	C2
VR3203	C2
VR3204	C2
VR3205	B1
VR3301	B2
VR3401	C3
VR3402	C3
X3201	B1
X3301	A2
X3302	B2
X3401	B3

REF	LOC
IC3101	C1
IC3102	D1
IC3103	D1
IC3105	C1
IC3106	B1
IC3202	A1
IC3203	B1
IC3204	C2
IC3205	B2
IC3206	C2
IC3207	C2
IC3209	C2
IC3210	A2
IC3211	B1
IC3212	B2
IC3214	B1
IC3301	B2
IC3302	A2
IC3303	A2
IC3304	A3
IC3305	A2
IC3306	A3
IC3401	D3
IC3402	E3
IC3403	D3
IC3404	C3
IC3407	B3
IC3409	B3
P3002	E1
P3003	E3
Q3301	B2
Q3302	A2
Q3303	A2
Q3304	A2
Q3305	A2

POWER 3 P.C. BOARD (VEP81196A)



(COMPONENT SIDE)



(FOIL SIDE)

REF	LOC
IC1201	B1
IC1202	B1
P1201	B1
Q1211	A1
Q1212	A1
Q1213	C1
Q1214	A1
Q1215	A1
Q1217	C1
TP1201	B1
VR1201	B1

REF	LOC	REF	LOC
Q1201	B1	QR1202	B1
Q1202	A1	QR1203	A1
Q1203	B1	QR1204	B1
Q1204	B1	QR1205	A1
Q1205	C1	QR1206	B1
Q1206	C1	QR1207	A1
Q1207	C1	QR1208	A1
Q1208	C1		
Q1209	A1		
Q1210	A1		
Q1216	A1		
Q1218	C2		
Q1219	C2		
QR1201	B1		

POWER1 (COMPONENT SIDE)

REF	LOC	REF	LOC
IC1301	B1	TP1701	B2
IC1302	B1	TP1702	C1
IC1503	C1	TP1703	C1
IC1601	C1	TP1704	C1
IC1602	D1	TP1705	D1
P1703	E2	TP1706	C1
P1705	E2	VR1301	B1
P1706	E2	VR1302	B1
Q1302	B1	VR1501	C1
Q1703	E1	VR1601	D1
Q1704	E2	VR1602	D1
QR1303	A1		
QR1304	A1		
TG1701	C2		
TP1301	A2		
TP1302	B2		
TP1501	B2		
TP1601	B2		
TP1602	D1		

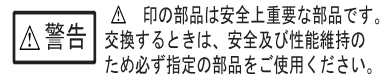
POWER1 (FOIL SIDE)

REF	LOC	REF	LOC
IC1303	D2	IC1606	B2
IC1304	D2	P1701	C1
IC1305	C2	P1702	D2
IC1306	C2	P1704	A1
IC1501	C2	Q1301	D1
IC1502	C2	Q1701	A2
IC1603	B2	Q1702	A2
IC1604	B2	QR1702	A2
IC1605	B2		




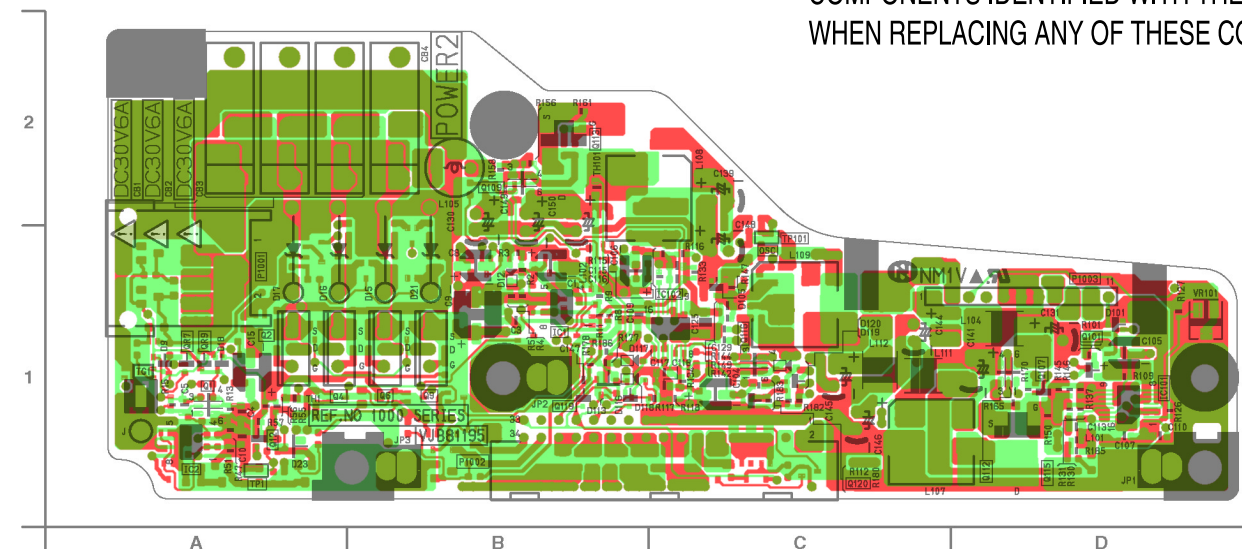
## POWER 2 P.C. BOARD (VEP81195A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1001	B1	P1003	D1	Q1012	A1	Q1115	D1	TG1001	A1
IC1002	A1	Q1001	A1	Q1101	D1	Q1116	C1	TP1001	A1
IC1101	D1	Q1002	A1	Q1107	D1	Q1119	B1	TP1101	C1
IC1102	B1	Q1004	A1	Q1109	B2	Q1120	C1	VR1101	D1
P1001	A1	Q1006	B1	Q1112	D1	QR1007	A1		
P1002	B1	Q1009	B1	Q1113	B2	QR1009	A1		

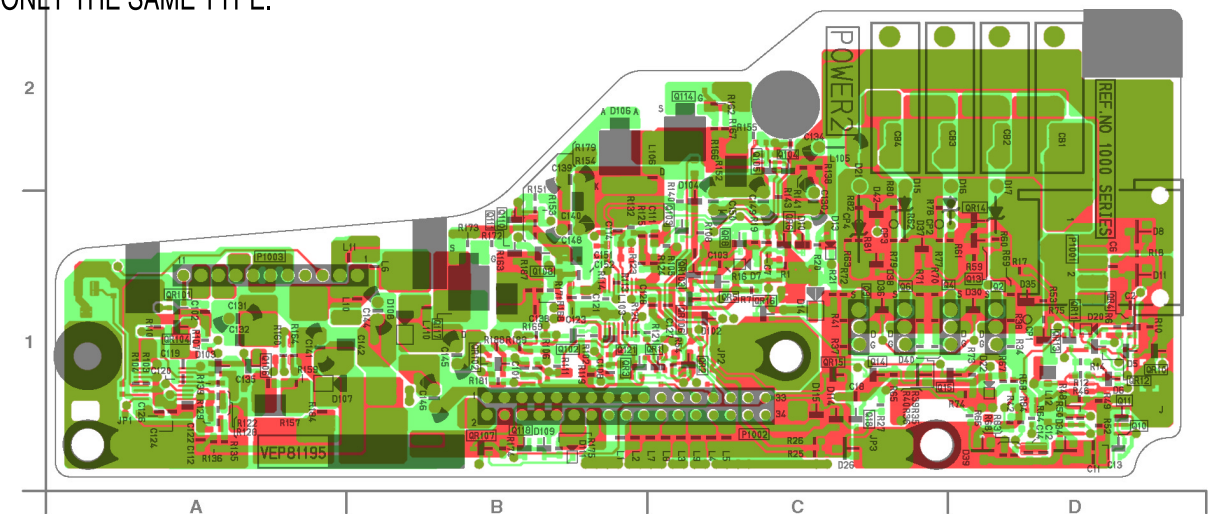
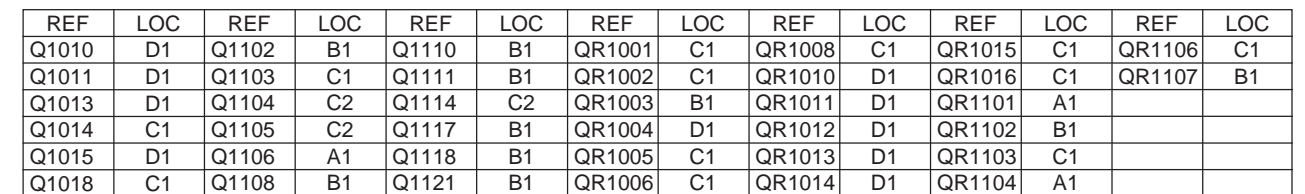


### IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

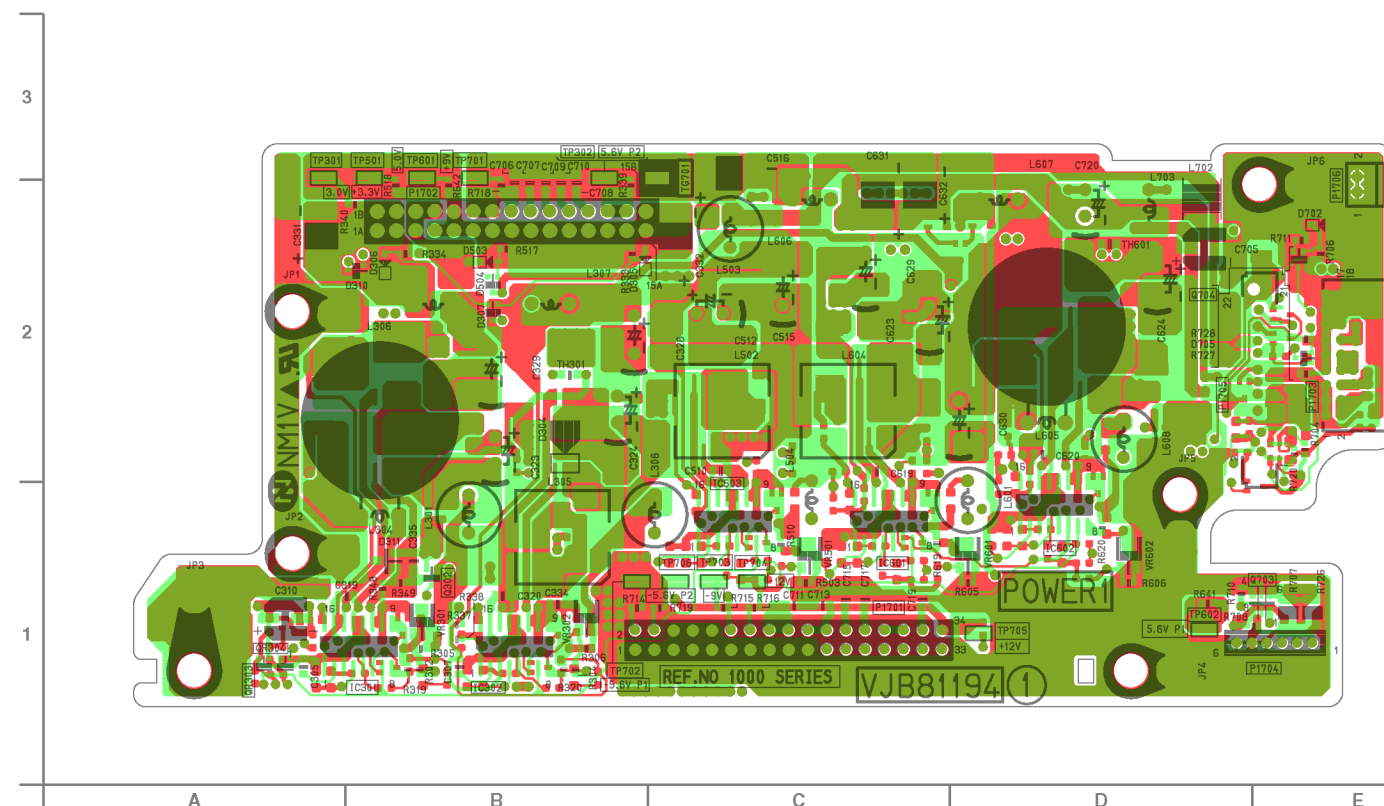


(COMPONENT SIDE)

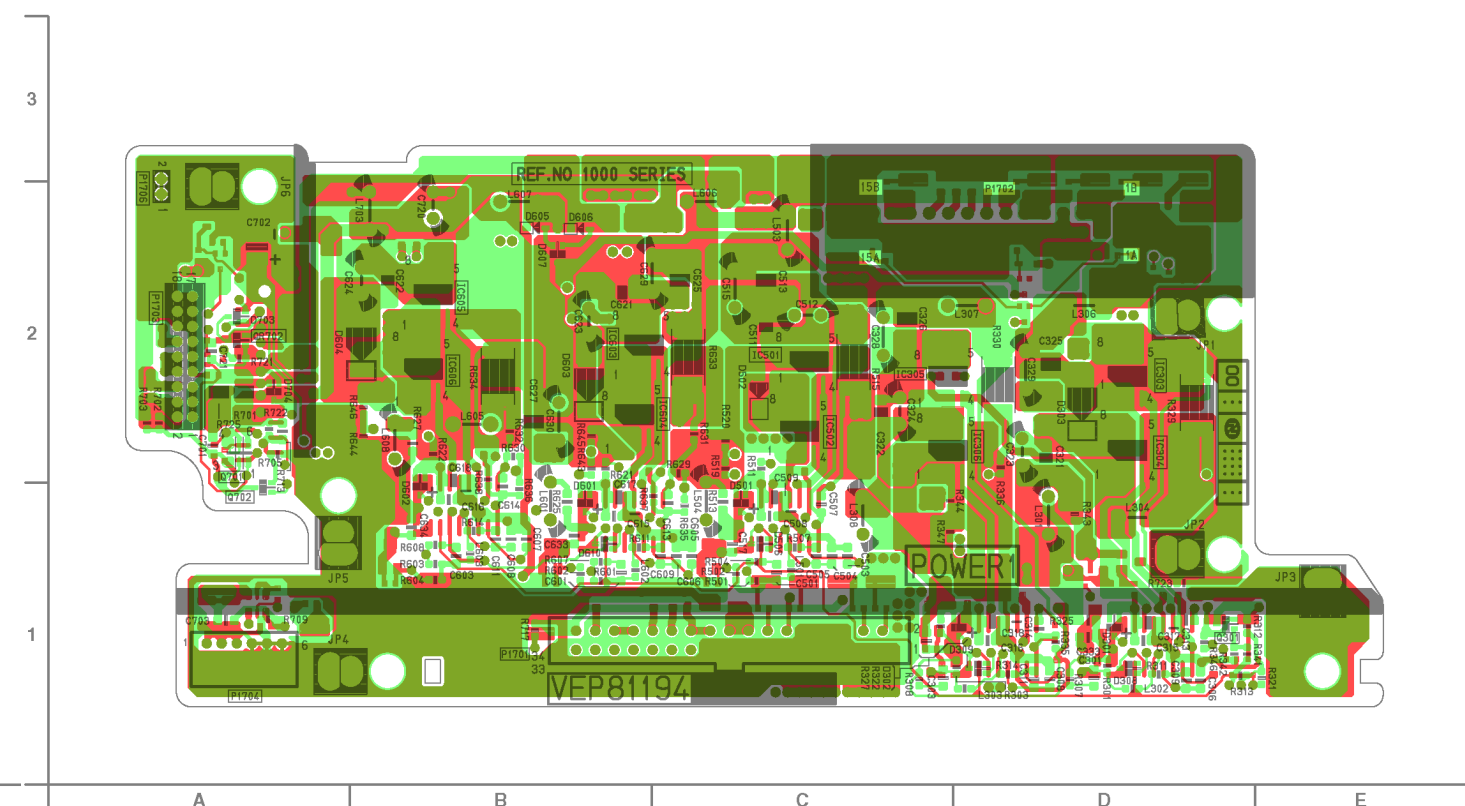


(FOIL SIDE)

## POWER 1 P.C. BOARD (VEP81194A)



(COMPONENT SIDE)

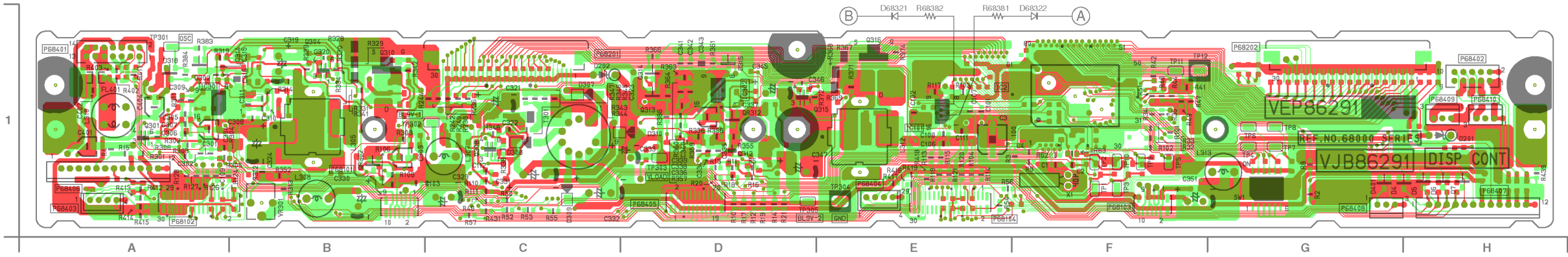


(FOIL SIDE)



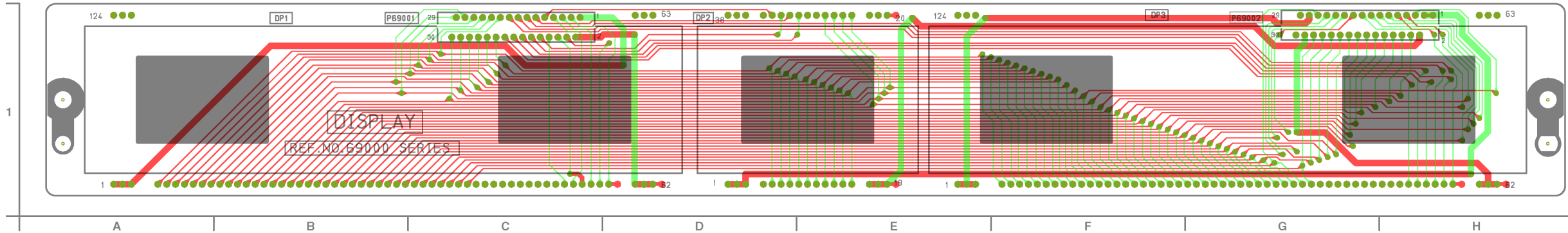
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REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC68002	F1	P68103	F1	P68403	A1	P68409	H1	Q68312	D1	QR68312	D1	TP68005	F1	TP68011	F1	TP68305	D1
IC68101	E1	P68104	E1	P68404	E1	P68410	H1	Q68313	D1	SW68001	G1	TP68006	G1	TP68012	F1	VR68301	B1
IC68301	A1	P68201	C1	P68405	D1	Q68301	A1	Q68314	D1	TP68001	F1	TP68007	G1	TP68301	A1	X68001	F1
IC68302	D1	P68202	G1	P68406	A1	Q68304	B1	Q68315	D1	TP68002	F1	TP68008	G1	TP68302	C1		
P68101	B1	P68401	A1	P68407	H1	Q68308	C1	Q68316	E1	TP68003	F1	TP68009	F1	TP68303	D1		
P68102	A1	P68402	H1	P68408	G1	Q68310	B1	QR68302	B1	TP68004	G1	TP68010	F1	TP68304	E1		



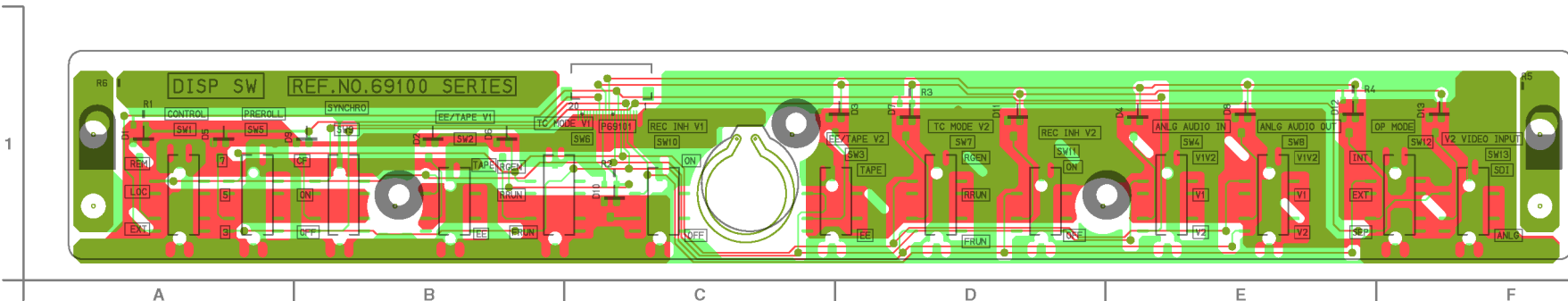
(COMPONENT SIDE)

## DISPLAY P.C. BOARD (VEP86292A)



(COMPONENT SIDE)

## DISPLAY SW P.C. BOARD (VEP80B35A)



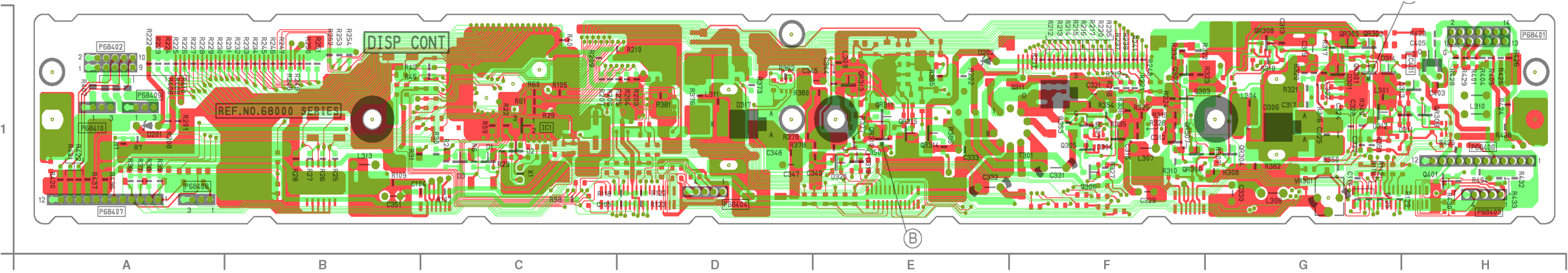
REF	LOC	REF	LOC	REF	LOC
P69101	C1	SW69106	B1	SW69112	F1
SW69101	A1	SW69107	D1	SW69113	F1
SW69102	B1	SW69108	E1		
SW69103	C1	SW69109	B1		
SW69104	E1	SW69110	C1		
SW69105	A1	SW69111	D1		

(COMPONENT SIDE)



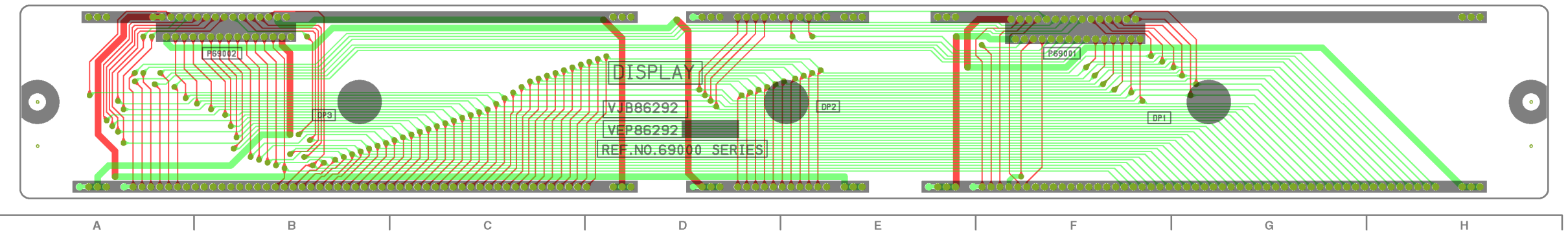
DISP. CONT. P.C. BOARD (VEP86291A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC68001	C1	Q68307	F1	QR68305	G1	QR68311	E1
IC68401	H1	Q68311	F1	QR68306	F1	QR68313	E1
Q68302	F1	Q68401	H1	QR68307	F1	QR68314	E1
Q68303	F1	QR68301	G1	QR68308	G1	QR68315	E1
Q68305	F1	QR68303	G1	QR68309	H1		
Q68306	F1	QR68304	G1	QR68310	E1		



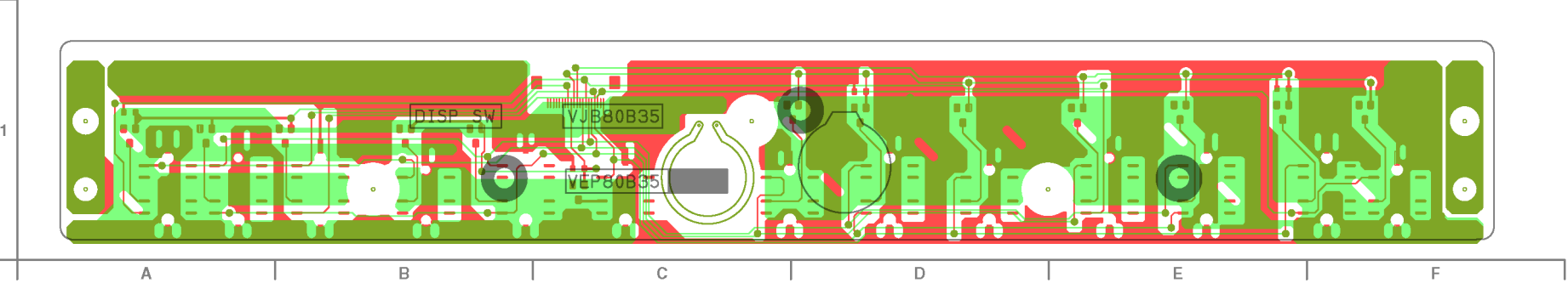
(FOIL SIDE)

DISPLAY P.C. BOARD (VEP86292A)



(FOIL SIDE)

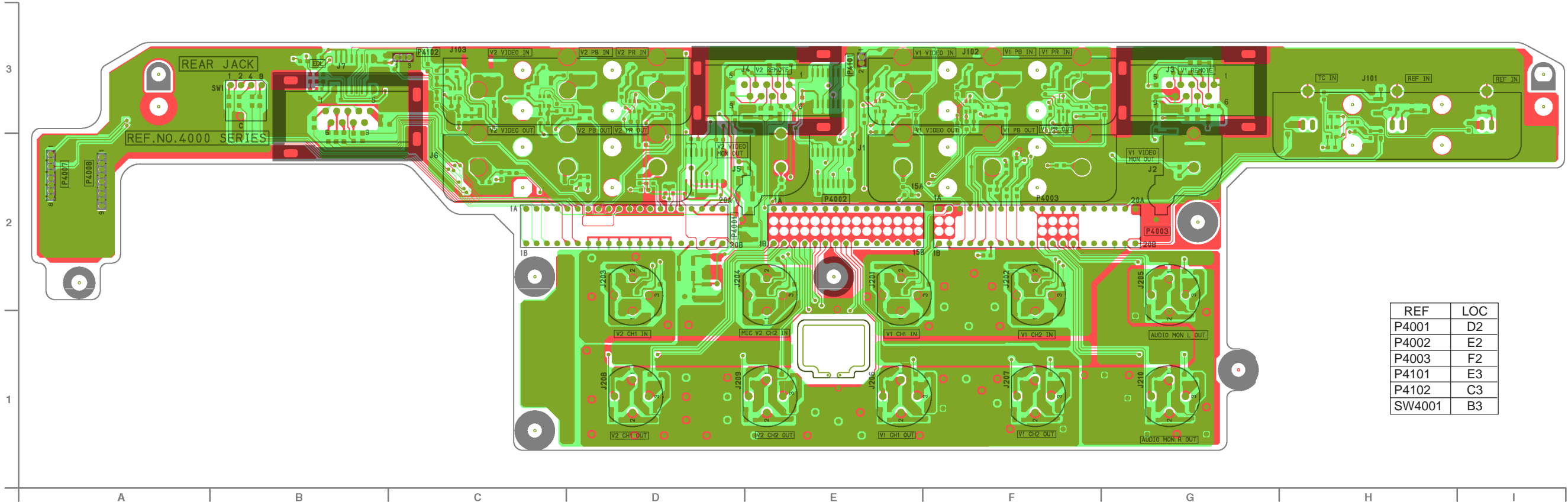
DISPLAY SW P.C. BOARD (VEP80B35A)



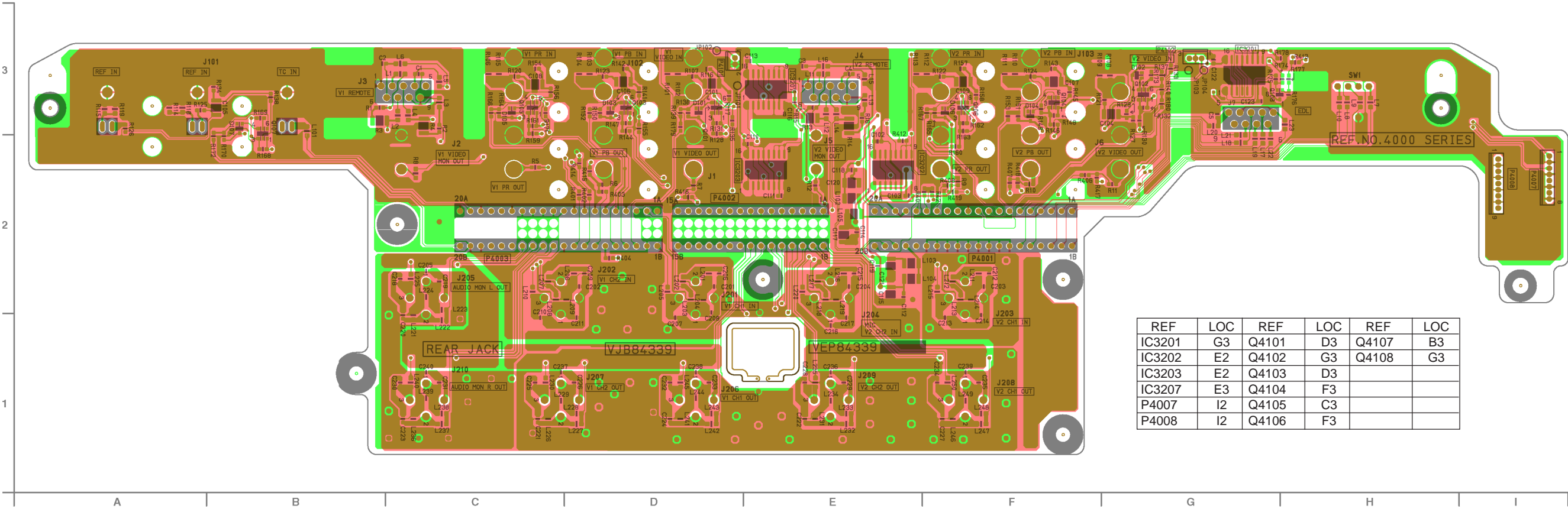
(FOIL SIDE)



REAR JACK P.C. BOARD (VEP84339A)



(COMPONENT SIDE)

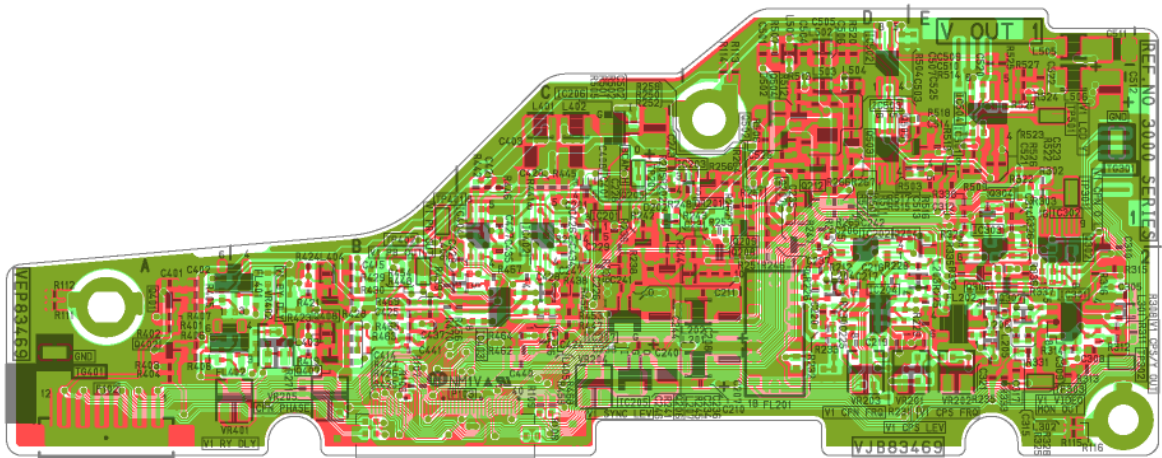


(FOIL SIDE)



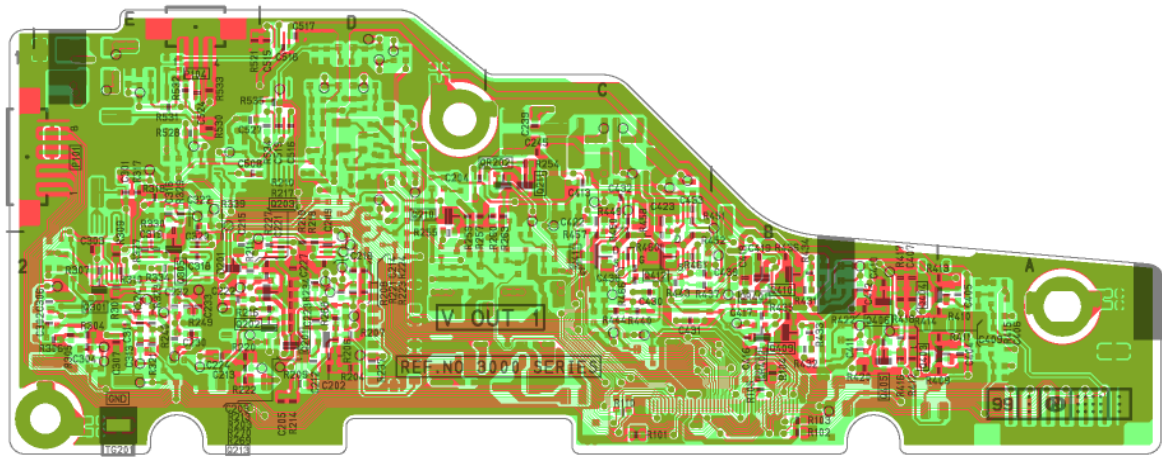
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IC3202	D2	IC3401	C1	P3103	B2	Q3304	E1	Q3503	D1	TP3303	E2	VR3401	B2
IC3203	C1	IC3402	C1	Q3204	E1	Q3306	E2	Q3504	D1	TP3401	B1	VR3402	B2
IC3204	D2	IC3403	C2	Q3205	C1	Q3307	E2	Q3505	E1	TP3402	B2		
IC3205	C2	IC3404	C1	Q3206	C2	Q3401	A2	QR3201	D1	TP3501	E1		
IC3206	C1	IC3501	E1	Q3207	D1	Q3402	A2	TG3301	E1	VR3201	E2		
IC3207	C2	IC3502	D1	Q3208	D2	Q3407	B2	TG3401	A2	VR3202	E2		
IC3301	E2	IC3503	D1	Q3209	D1	Q3408	B2	TP3201	C1	VR3203	D2		
IC3302	E2	IC3504	E1	Q3212	D1	Q3501	D1	TP3301	E1	VR3204	C2		



(COMPONENT SIDE)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
P3101	E1	Q3211	C1	Q3405	B2	QR3202	C1
P3104	E1	Q3213	D2	Q3406	B2	QR3401	B2
Q3201	D2	Q3301	E2	Q3409	B2	QR3402	B2
Q3202	D2	Q3305	E2	Q3410	B2	TG3201	E2
Q3203	D2	Q3403	A2	Q3411	C2		
Q3210	D1	Q3404	A2	Q3412	C2		

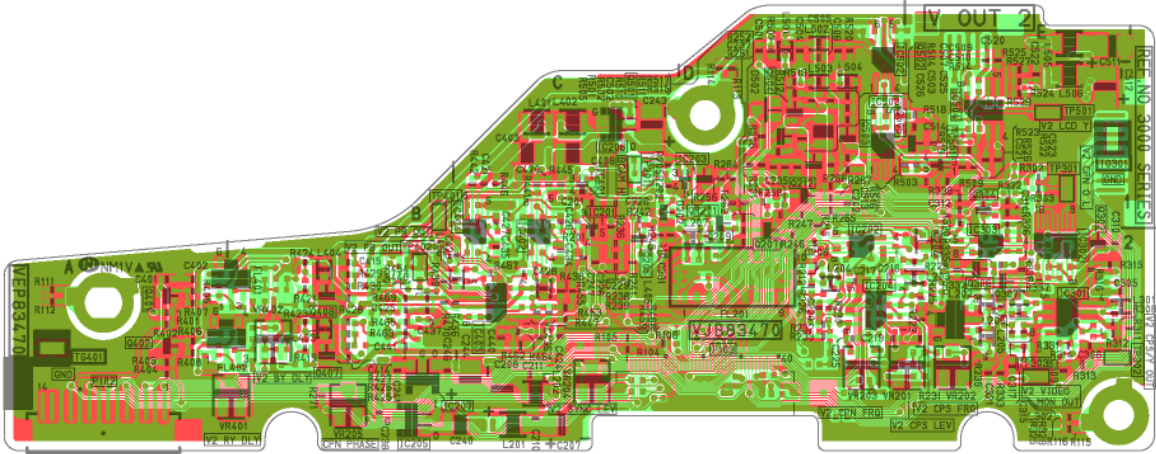


(FOIL SIDE)



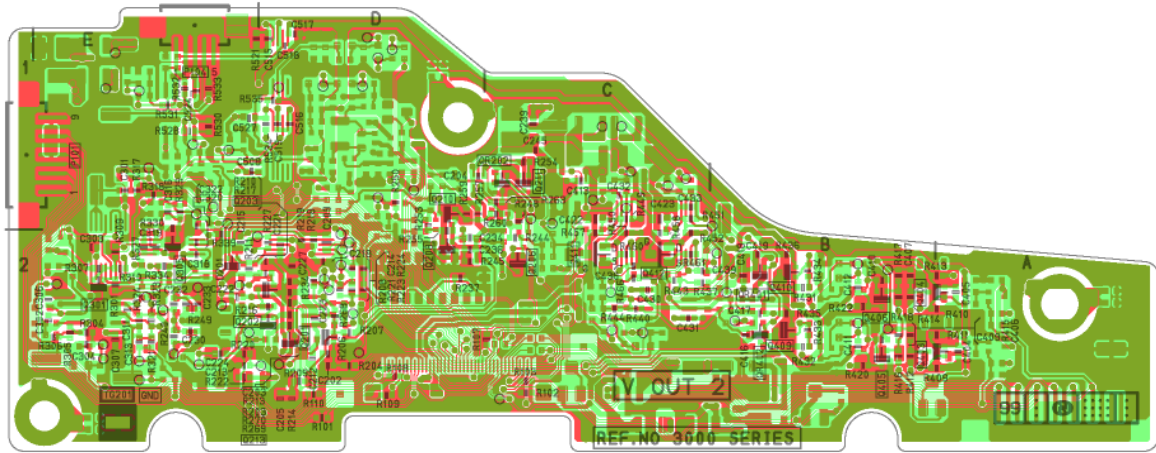
V OUT 2 P.C. BOARD (VEP83470B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3201	C1	IC3303	E2	P3102	A2	Q3306	E2	Q3504	D1	TP3401	B1	VR3402	B2
IC3202	D2	IC3401	C1	P3103	D2	Q3307	E2	Q3505	E1	TP3402	B2		
IC3203	C1	IC3402	C1	Q3204	E2	Q3401	A2	QR3201	D1	TP3501	E1		
IC3204	D2	IC3403	C2	Q3205	C2	Q3402	A2	TG3301	E1	VR3201	E2		
IC3205	B2	IC3404	C1	Q3207	D1	Q3407	B2	TG3401	A2	VR3202	E2		
IC3206	C1	IC3501	E1	Q3209	D1	Q3408	B2	TP3201	C1	VR3203	D2		
IC3207	B2	IC3502	D1	Q3212	D1	Q3501	D1	TP3301	E1	VR3204	C2		
IC3301	E2	IC3503	D1	Q3302	E2	Q3502	D1	TP3302	E2	VR3205	B2		
IC3302	E2	IC3504	E1	Q3304	E1	Q3503	D1	TP3303	E2	VR3401	B2		



(COMPONENT SIDE)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
P3101	E1	Q3208	D2	Q3403	A2	Q3411	C2
P3104	E1	Q3210	D1	Q3404	A2	Q3412	C2
Q3201	D2	Q3211	C1	Q3405	B2	QR3202	C1
Q3202	D2	Q3213	D2	Q3406	B2	QR3401	B2
Q3203	D2	Q3301	E2	Q3409	B2	QR3402	B2
Q3206	C2	Q3305	E2	Q3410	B2	TG3201	E2

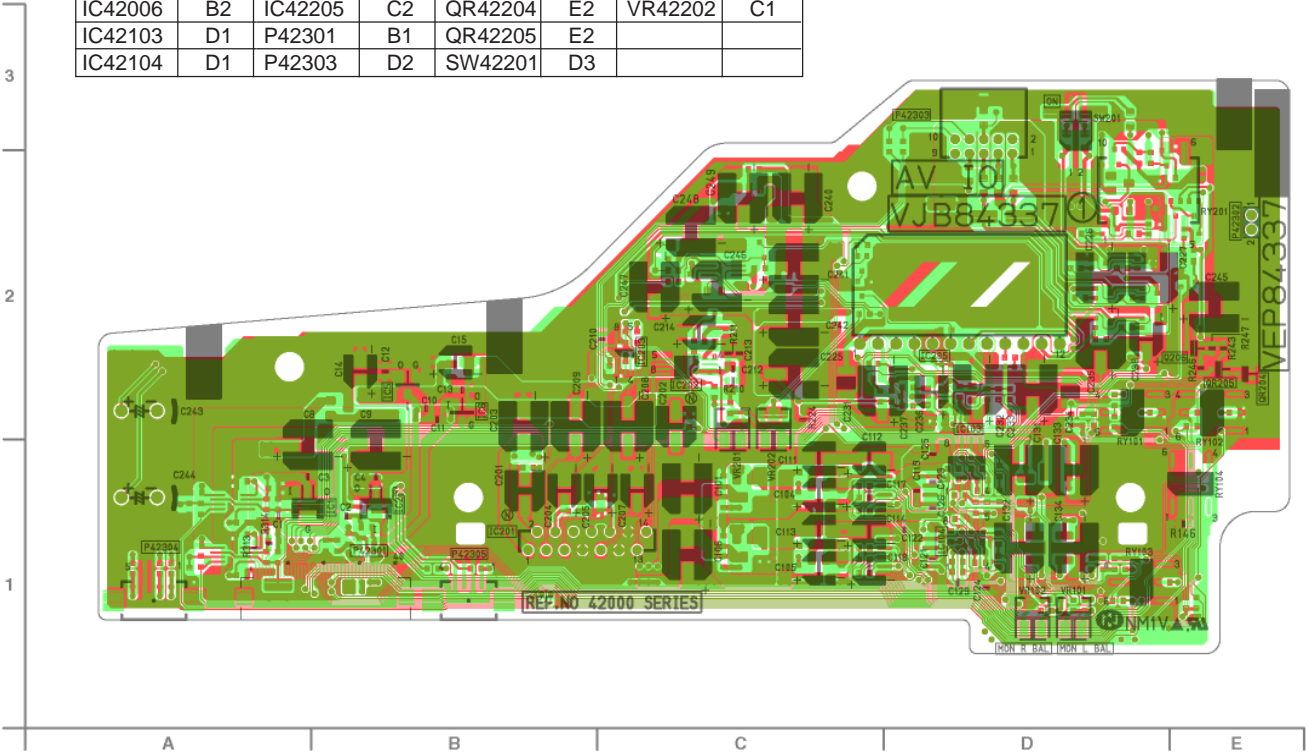


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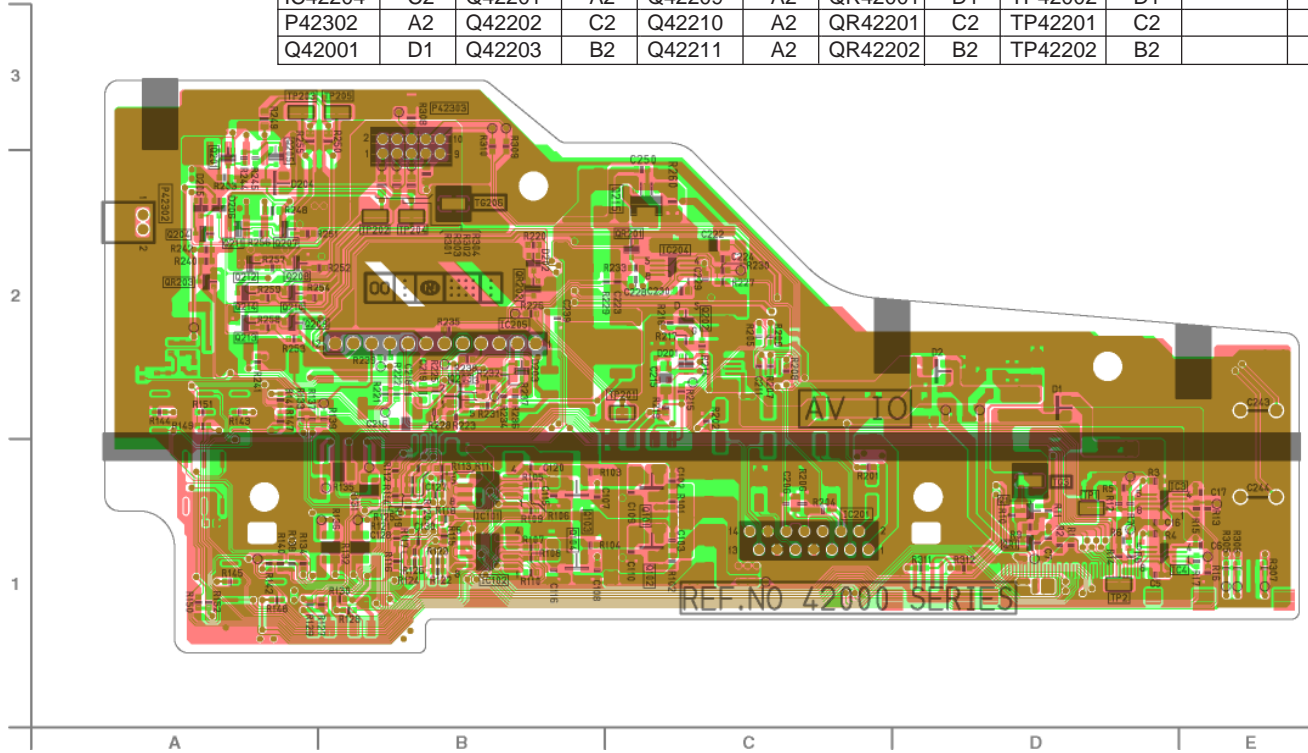
AV IO P.C. BOARD (VEP84337A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC42001	B1	IC42201	B1	P42304	A1	VR42101	D1
IC42002	B1	IC42202	C2	P42305	B1	VR42102	D1
IC42005	B2	IC42203	C2	Q42206	E2	VR42201	C1
IC42006	B2	IC42205	C2	QR42204	E2	VR42202	C1
IC42103	D1	P42301	B1	QR42205	E2		
IC42104	D1	P42303	D2	SW42201	D3		



(COMPONENT SIDE)

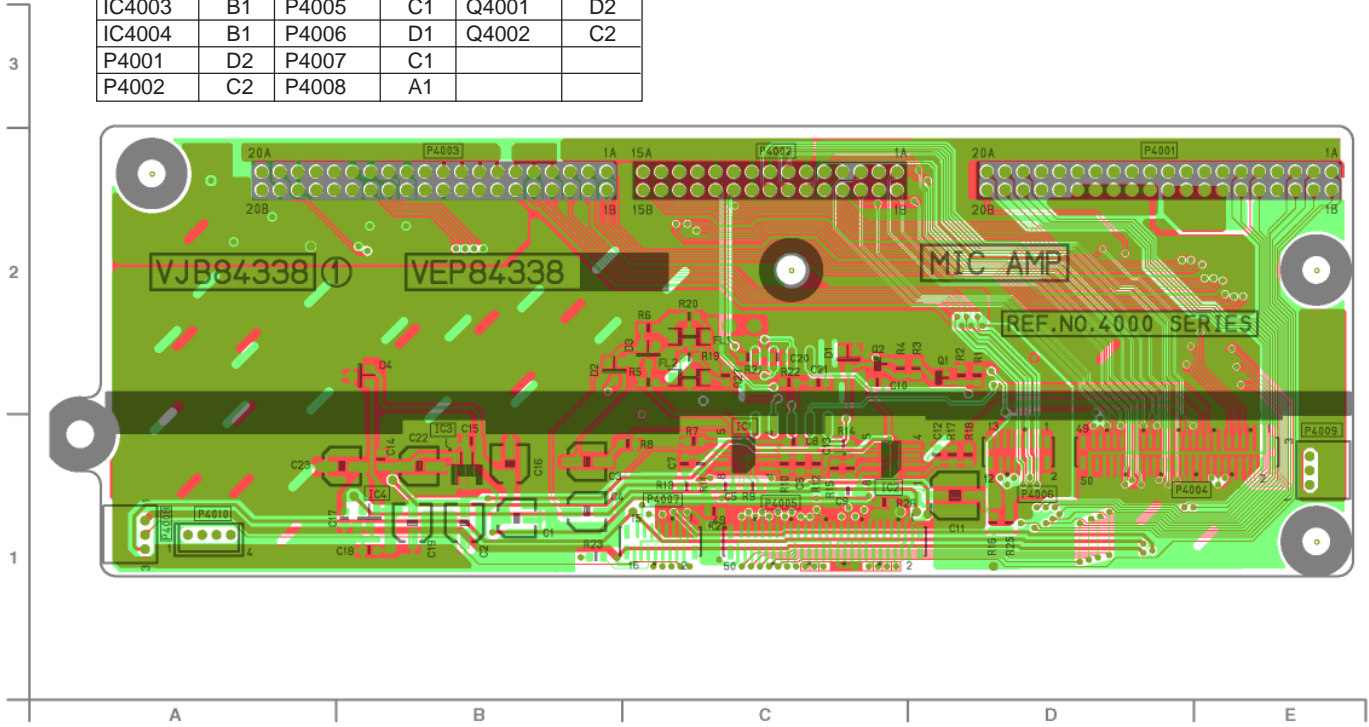
REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC42003	D1	Q42101	C1	Q42204	A2	Q42212	A2	QR42203	A2	TP42203	A3
IC42004	D1	Q42102	C1	Q42205	A2	Q42213	A2	TG42203	D1	TP42204	B2
IC42101	B1	Q42103	B1	Q42207	A2	Q42214	A2	TG42206	B2	TP42205	B3
IC42102	B1	Q42104	B1	Q42208	A2	Q42215	C2	TP42001	D1		
IC42204	C2	Q42201	A2	Q42209	A2	QR42001	D1	TP42002	D1		
P42302	A2	Q42202	C2	Q42210	A2	QR42201	C2	TP42201	C2		
Q42001	D1	Q42203	B2	Q42211	A2	QR42202	B2	TP42202	B2		



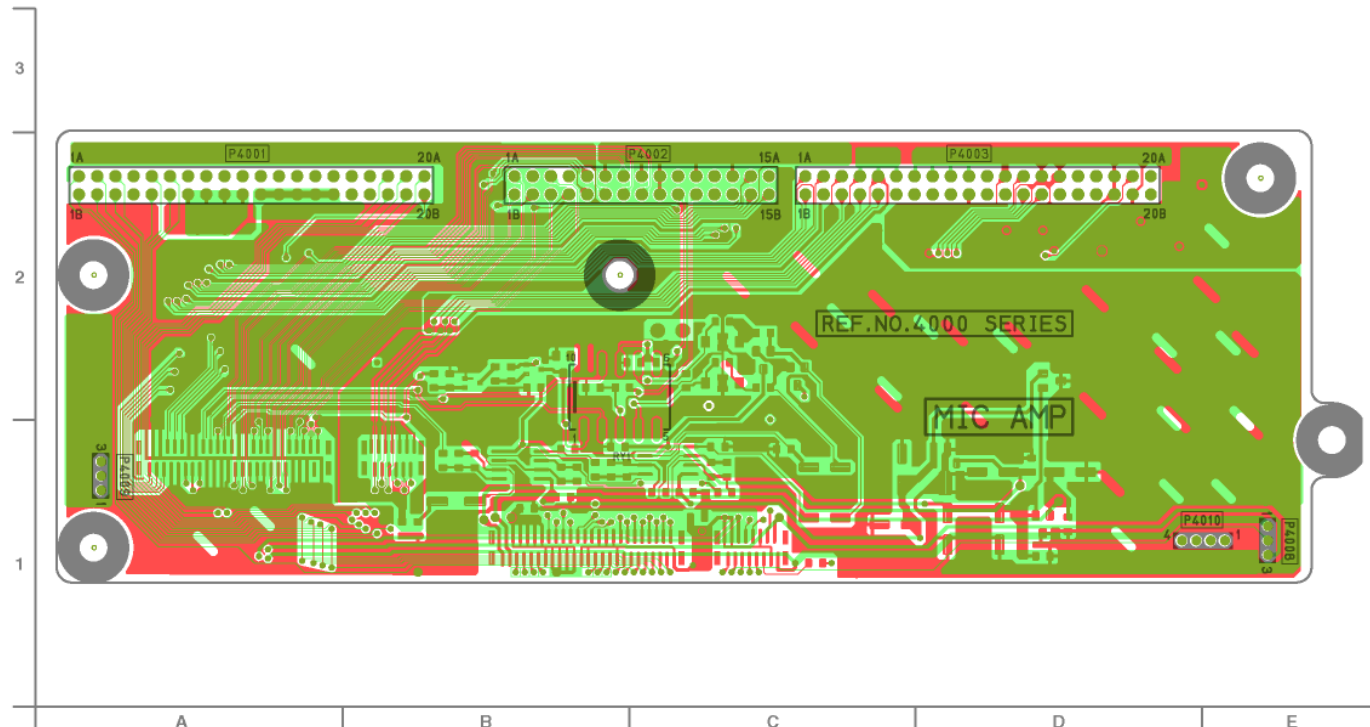
(FOIL SIDE)

MIC AMP P.C. BOARD (VEP84338A)

REF	LOC	REF	LOC	REF	LOC
IC4001	C1	P4003	B2	P4009	E1
IC4002	C1	P4004	D1	P4010	A1
IC4003	B1	P4005	C1	Q4001	D2
IC4004	B1	P4006	D1	Q4002	C2
P4001	D2	P4007	C1		
P4002	C2	P4008	A1		



(COMPONENT SIDE)

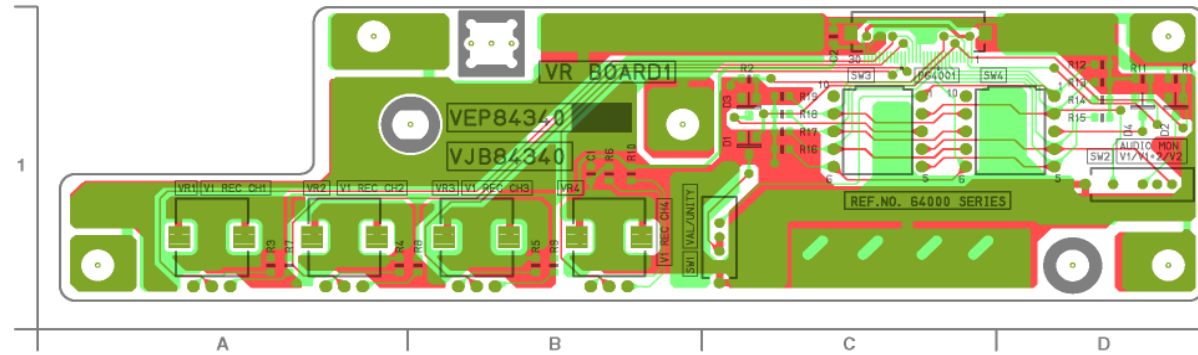


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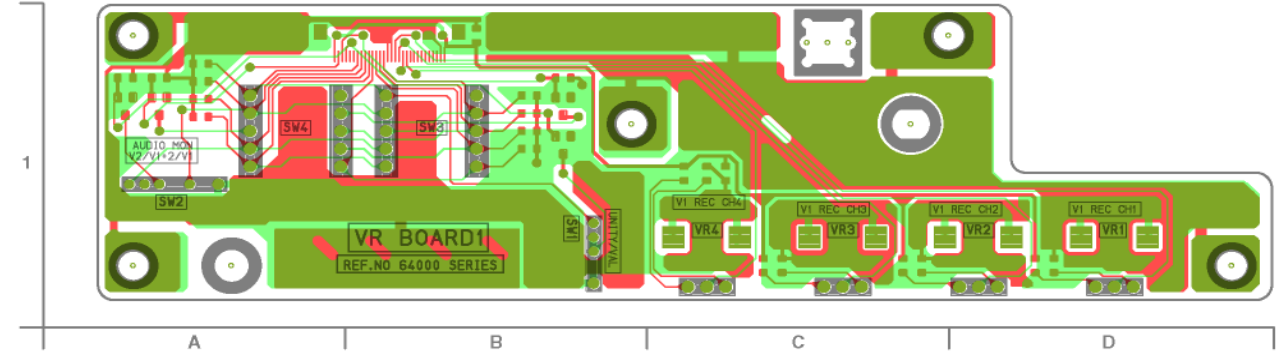


## VR BOARD 1 P.C. BOARD (VEP84340A)

REF	LOC	REF	LOC
P64001	C1	VR64002	A1
SW64001	C1	VR64003	B1
SW64002	D1	VR64004	B1
SW64003	C1		
SW64004	D1		
VR64001	A1		



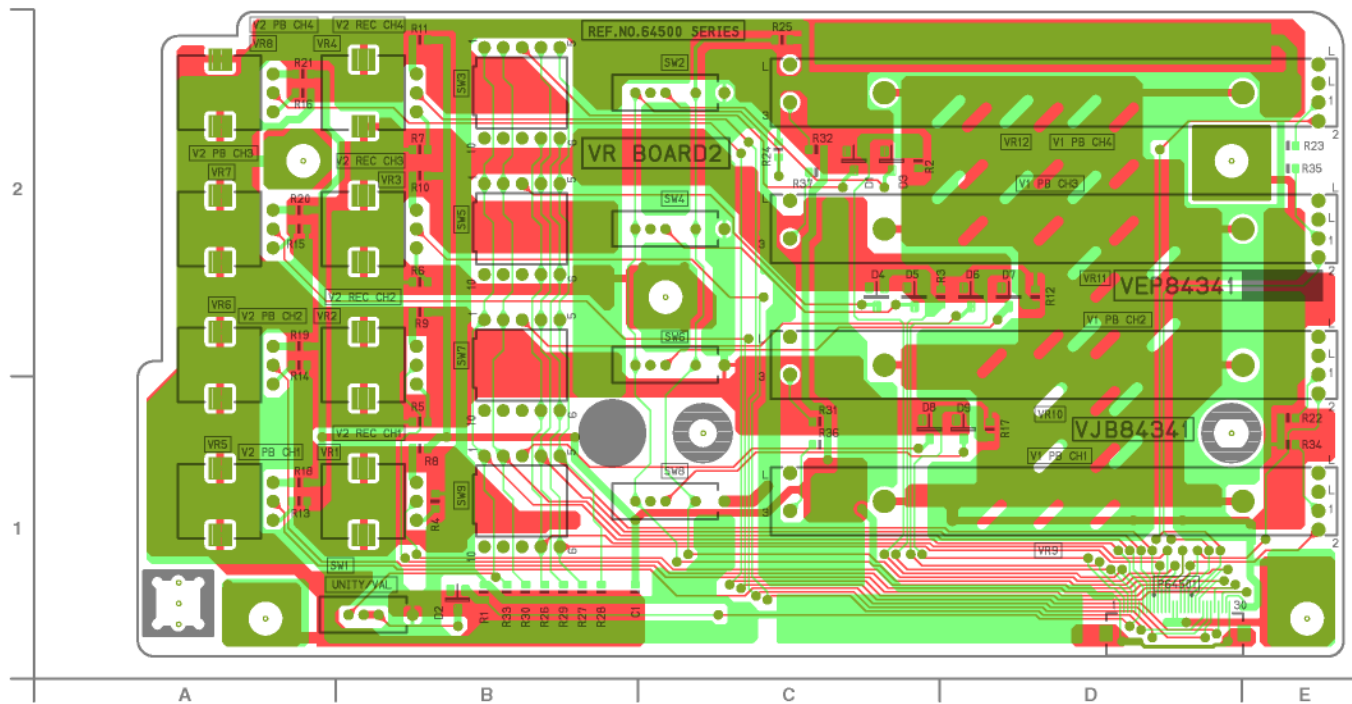
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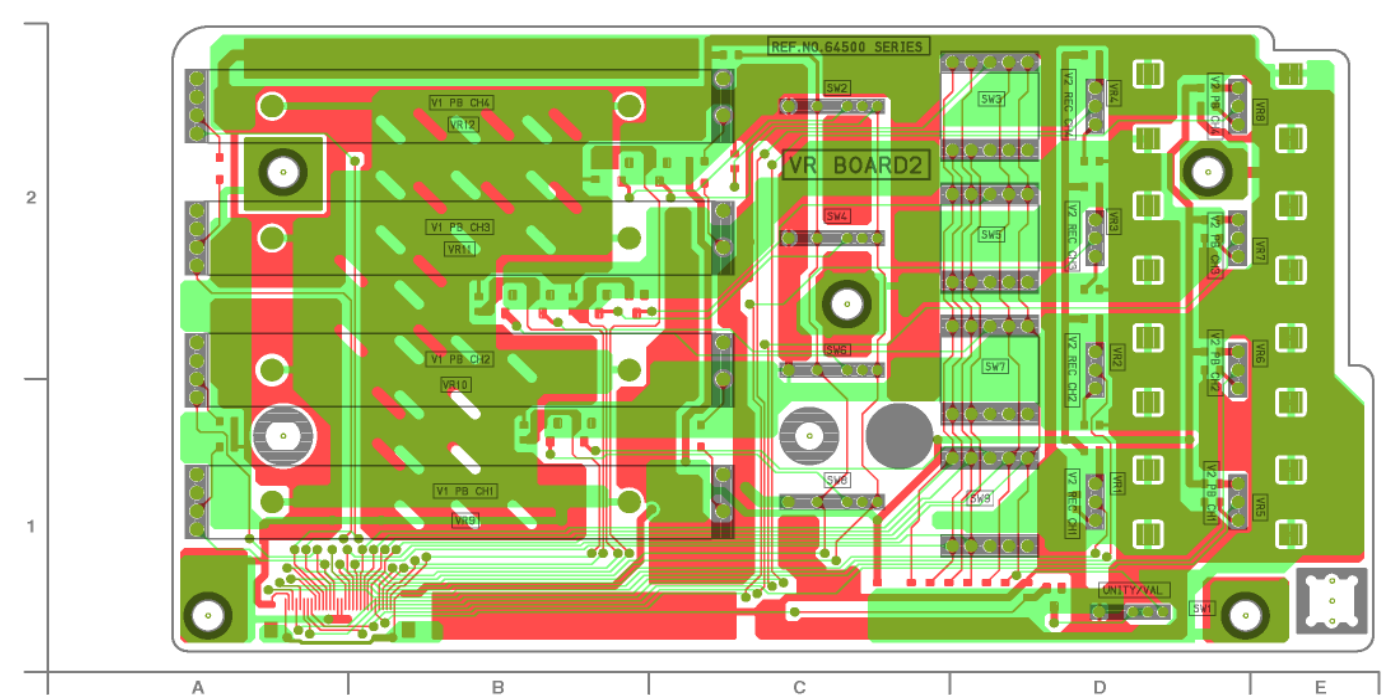
(FOIL SIDE)

## VR BOARD 2 P.C. BOARD (VEP84341A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
P64501	D1	SW64506	C1	VR64503	B2	VR64509	D1
SW64501	B1	SW64507	B1	VR64504	B2	VR64510	D1
SW64502	C2	SW64508	C1	VR64505	A1	VR64511	D2
SW64503	B2	SW64509	B1	VR64506	A1	VR64512	D2
SW64504	C2	VR64501	B1	VR64507	A2		
SW64505	B2	VR64502	B1	VR64508	A2		



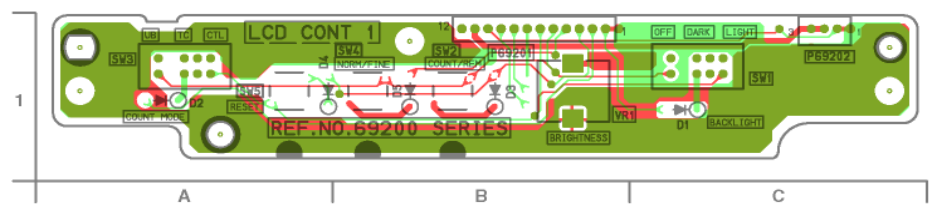
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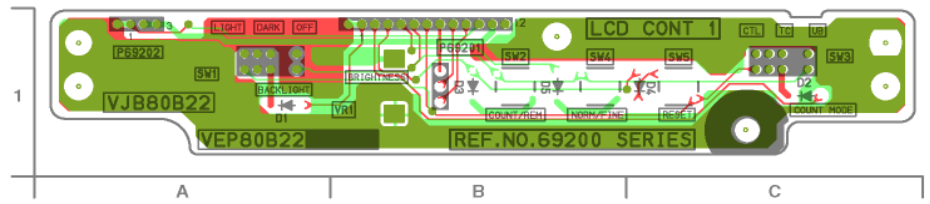
(FOIL SIDE)



LCD CONT 1 P.C. BOARD (VEP80B22A)



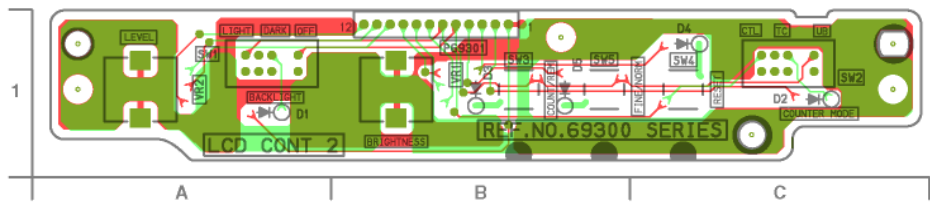
(COMPONENT SIDE)



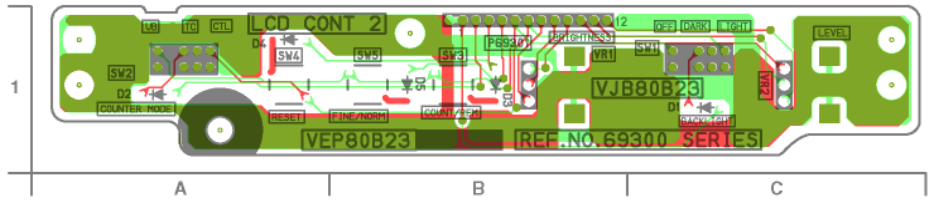
(FOIL SIDE)

REF	LOC	REF	LOC
P69201	B1	SW69205	A1
P69202	C1	VR69201	B1
SW69201	C1		
SW69202	B1		
SW69203	A1		
SW69204	B1		

LCD CONT 2 P.C. BOARD (VEP80B23A)



(COMPONENT SIDE)



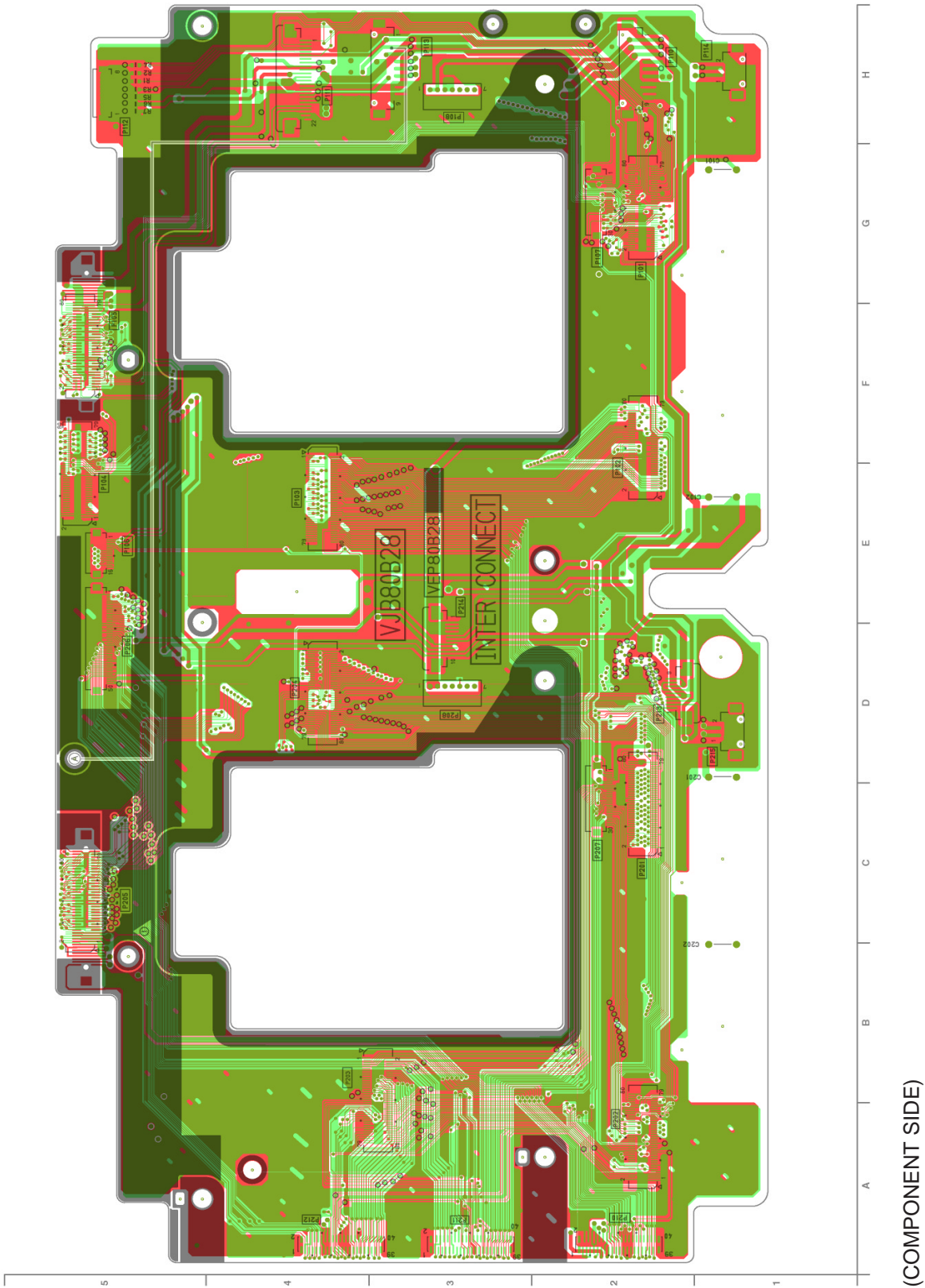
(FOIL SIDE)

REF	LOC	REF	LOC
P69301	B1	VR69301	B1
SW69301	A1	VR69302	A1
SW69302	C1		
SW69303	B1		
SW69304	C1		
SW69305	B1		



INTER CONNECT P.C. BOARD (VEP80B28A)

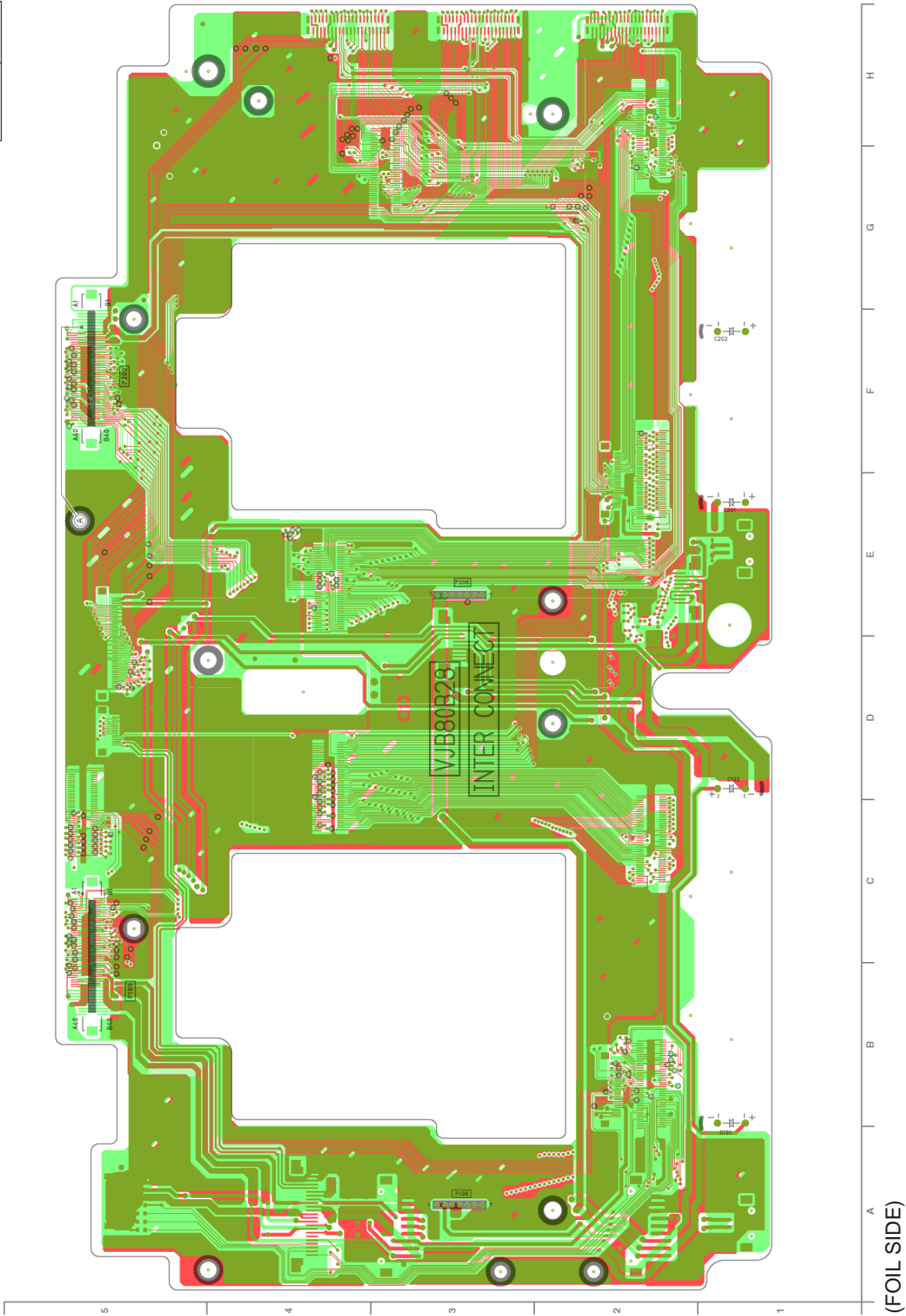
REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
P101	G2	P107	G2	P201	C2	P207	C2	P215	D1
P102	F2	P110	H2	P202	A2	P210	A2		
P103	E4	P111	H4	P203	B3	P211	A3		
P104	F5	P112	H5	P204	D4	P212	A4		
P105	F5	P113	H3	P205	C5	P213	D1		
P106	E5	P114	H1	P206	D5	P214	D3		





INTER CONNECT P.C. BOARD (VEP80B28A)

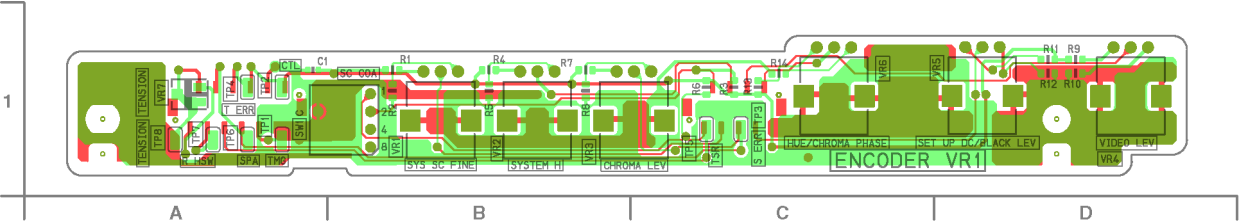
REF	LOC
P108	A3
P109	B5
P208	E3
P209	F5



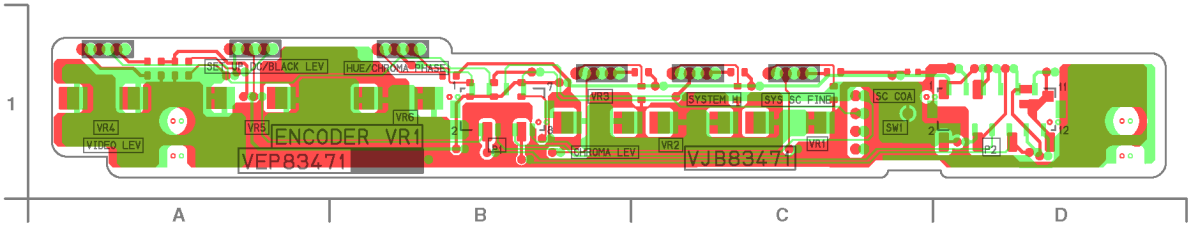


ENCODER VR 1 P.C. BOARD (VEP83471A)

REF	LOC	REF	LOC	REF	LOC
SW1	B1	TP6	A1	VR4	D1
TP1	A1	TP7	A1	VR5	D1
TP2	A1	TP8	A1	VR6	C1
TP3	C1	VR1	B1	VR7	A1
TP4	A1	VR2	B1		
TP5	C1	VR3	C1		



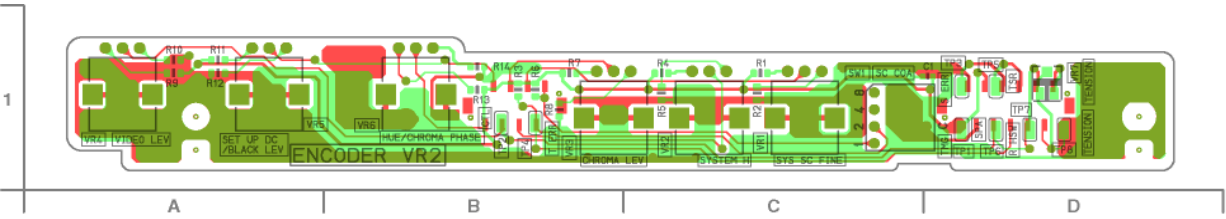
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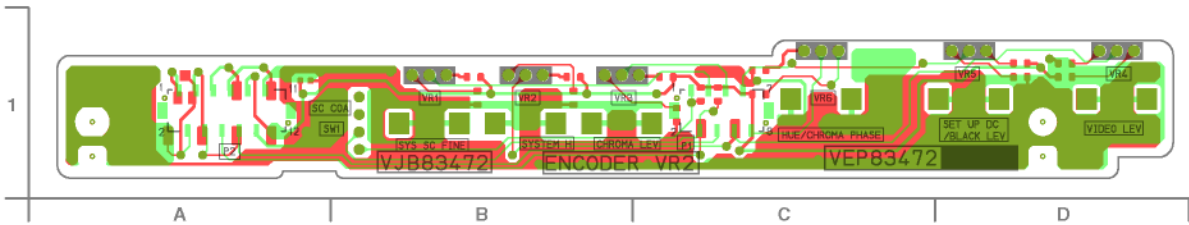
(FOIL SIDE)

ENCODER VR 2 P.C. BOARD (VEP83472A)

REF	LOC	REF	LOC	REF	LOC
SW1	C1	TP6	D1	VR4	A1
TP1	D1	TP7	D1	VR5	A1
TP2	B1	TP8	D1	VR6	B1
TP3	D1	VR1	C1	VR7	D1
TP4	B1	VR2	C1		
TP5	D1	VR3	B1		



(COMPONENT SIDE)



(FOIL SIDE)



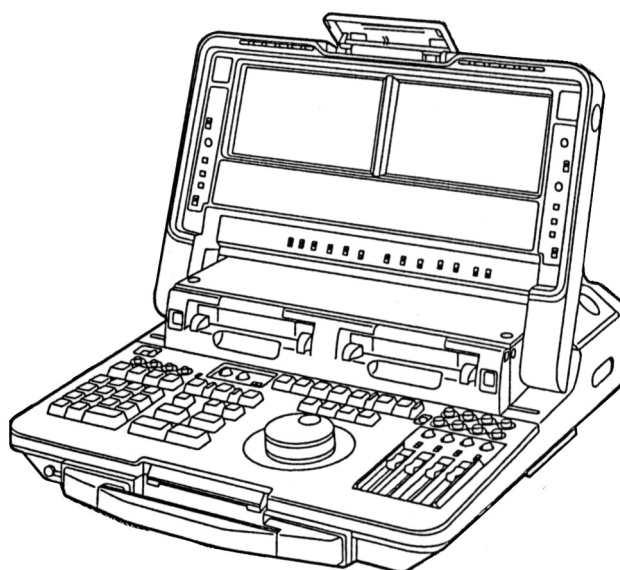
# Service Manual

**DVCPRO 50**

Lap Top Editor

**AJ-LT95E**

- Sec. 1** *Operating Instructions*
- Sec. 2** *Service Information*
- Sec. 3** *Disassembly Procedures*
- Sec. 4** *Electrical Adjustment*
- Sec. 5** *Block Diagrams*
- Sec. 6** *Schematic Diagrams*
- Sec. 7** *Circuit Board Diagrams*
- Sec. 8** *Exploded Views & Replacement Parts List*



Circuit Board Diagram and Electrical Part List of AJ-LT95E are described in **CD-ROM Service Manual (Order No. BSD00101K0X)**.

Mechanical adjustment and Major Mechanical Parts Replacement procedure of AJ-LT95 are described in service manual “**DVCPRO MECHANISM**” (Order No. VSD9912M914). Please perform the adjustment and replacement following the above indicated manual and this manual.

**Panasonic**

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## WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products deal with in this service manual by anyone else could result in serious injury or death.

## Specifications

### [GENERAL]

**Supply voltage:** DC 12 V

**Input current:** 12 A

**Ambient operating temperature:**

5°C to 40°C

**Ambient operating humidity:**

10% to 85% (no condensation)

**Weight:**

12.9 kg

**Dimensions (W×H×D):**

424×120×435 mm

**Recording format:**

DVCPRO 50 format/DVCPRO format selectable

**Video signals recorded:**

525i/625i selectable (625i only with input signals)

**Audio signals recorded:**

DVCPRO 50: 48 kHz, 16 bits, 4 channels

DVCPRO: 48 kHz, 16 bits, 2 channels

**Recording tracks:**

- Digital video and digital audio:  
Helical track
- TC:  
Helical track (subcode area)
- Cue signal:  
1 track
- Control (CTL) signal:  
1 track

**Tape speed:**

DVCPRO 50 (525i): 67.640 mm/s

DVCPRO 50 (625i): 67.708 mm/s

DVCPRO (525i): 33.820 mm/s

DVCPRO (625i): 33.854 mm/s

**Recording time:**

- DVCPRO 50:  
92 minutes (using AJ-5P92LP)  
33 minutes (using AJ-P66MP)
- DVCPRO:  
184 minutes (using AJ-5P92LP\*)  
66 minutes (using AJ-P66MP)

\*For AJ-5P92LP cassette tapes recorded using the DVCPRO (25 Mbps) mode, use a VTR supporting DVCPRO (25 Mbps) 184 minute tapes.

**Tape used:**

Metal tapes

**FF/REW time:**

Less than 3.5 min. (using AJ-5P92LP)

**Editing accuracy:**

±0 frames (using time code)

**Tape timer accuracy:**

±2 frames (using continuous CTL signal)

**Servo lock time:**

Less than 0.5 sec

### [VIDEO]

#### ■ Digital video (same for VTR1, VTR2)

**Sampling frequencies:**

- DVCPRO 50  
Y: 13.5 MHz  
PB/PR: 6.75 MHz
- DVCPRO  
Y: 13.5 MHz  
PB/PR: 3.375 MHz

**Quantizing:**

8 bits

**Video compression system:**

DCT + variable-length code

**Video compression ratios:**

- DVCPRO 50: 1/3.3
- DVCPRO: 1/5

**Error correction:**

Reed-Solomon product code

#### ■ Digital IN/analogue component OUT (VTR2 only)

**Video band (DVCPRO 50):**

- 625i  
Y: 25 Hz to 5.5 MHz (±1 dB)  
5.75 MHz (−3 dB)  
PB/PR: 25 Hz to 2.5 MHz (±1 dB)  
2.75 MHz (−3 dB)

**Signal-to-noise ratio:**

Better than 57 dB

**K factor:**

Less than 2%



# Specifications

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## [VIDEO]

### ■ Analogue component IN/analogue component OUT (same for VTR1, VTR2)

#### Video band (DVCPRO 50):

- 625i
  - Y: 25 Hz to 5 MHz ( $\pm 1$  dB)
  - P<sub>B</sub>/P<sub>R</sub>: 25 Hz to 2.5 MHz ( $\pm 1$  dB)  
2.75 MHz ( $-3$  dB)

#### Signal-to-noise ratio:

Better than 54 dB

#### K factor:

Less than 2%

### ■ Analogue composite IN/analogue composite OUT (same for VTR1, VTR2)

#### Video band:

- 625i
  - Y: 25 Hz to 4.5 MHz ( $\pm 1.5$  dB)

#### Y/C delay:

Less than 20 ns

#### K factor:

Less than 2%

## [AUDIO]

### ■ Digital audio (same for VTR1, VTR2)

#### Sampling frequency:

48 kHz

#### Quantizing:

16 bits

#### Frequency response:

20 Hz to 20 kHz  $\pm 1$  dB (at reference level)

#### Dynamic range:

More than 85 dB (1 kHz, emphasis off, "A" weighted)

#### Distortion:

Under 0.1% (1 kHz, emphasis off, reference level)

#### Crosstalk:

Less than  $-80$  dB (1 kHz, between 2 channels)

#### Wow & flutter:

Below measurable limits

#### Headroom:

525i: 20 dB

625i: 18 dB

#### Emphasis:

T1 = 50  $\mu$ s/T2 = 15  $\mu$ s (on/off selectable)

## [ADJUSTMENTS]

### ■ Video output signals (separately for VTR1, VTR2)

#### Video gain:

More than  $\pm 3$  dB

#### Chroma gain:

More than  $\pm 3$  dB

#### Chroma phase:

More than  $\pm 30$  deg

#### Black level:

More than  $\pm 70$  mV

#### H phase:

More than  $\pm 8$   $\mu$ s

#### SC phase:

$\pm 180$  deg



# Specifications

## [INPUT/OUTPUT CONNECTORS]

### ■ VIDEO

#### Analogue component input:

BNC  $\times 6$  ([Y/P<sub>B</sub>/P<sub>R</sub>]  $\times 2$ ) (VTR1, VTR2)  
Y: 1.0 V [P-P], 75  $\Omega$ , switched with  
analogue composite input  
P<sub>B</sub>/P<sub>R</sub>: 0.525/0.757 V [P-P] switching, 75  $\Omega$   
(75% colour bar, 0% setup)

#### Analogue composite input:

BNC  $\times 2$  (VTR1, VTR2), 1.0 V [P-P], 75  $\Omega$ ,  
switched with analogue component Y input

#### Reference input:

BNC  $\times 2$  (loop-through), 75  $\Omega$ , automatic  
ON/OFF switching

#### Serial component digital input:

BNC  $\times 2$  (active through), compliant with  
SMPTE259M-C standard

#### Analogue component output:

BNC  $\times 6$  ([Y/P<sub>B</sub>/P<sub>R</sub>]  $\times 2$ ) (VTR1, VTR2)  
Y: 1.0 V [P-P], 75  $\Omega$ , switched with  
analogue composite output  
P<sub>B</sub>/P<sub>R</sub>: 0.525/0.757 V [P-P] switching, 75  $\Omega$   
(75% colour bar, 0% setup)

#### Analogue composite output:

BNC  $\times 2$  (VTR1, VTR2), 1.0 V [P-P], 75  $\Omega$ ,  
switched with analogue component Y output

#### Monitor output:

BNC  $\times 2$  (VTR1, VTR2), analogue composite,  
1.0 V [P-P], 75  $\Omega$ , superimpose ON/OFF

#### Serial component digital output:

BNC  $\times 1$ , compliant with SMPTE259M-C  
standard

### ■ AUDIO

#### Analogue input:

XLR  $\times 4$  (VTR1 CH1/2 and VTR2 CH1/2, VTR1  
CH1/2/3/4, VTR2 CH1/2/3/4 selectable)  
600  $\Omega$ /high impedance selectable  
+4/0/-3/-20 dBu selectable  
VTR2 CH2 input (no.2 connector) only  
+4/0/-3/-60 dBu selectable

#### Serial digital input:

BNC  $\times 2$  (active through), compliant with  
SMPTE259M-C standard

#### Analogue output:

XLR  $\times 4$  (VTR1 CH1/2 and VTR2 CH1/2, VTR1  
CH1/2/3/4, VTR2 CH1/2/3/4 selectable),  
low impedance,  
+4/0/-3/-20 dBu selectable

#### Monitor output:

XLR  $\times 2$  (L/R or VTR1/2), low impedance, 0 dBu

#### Serial digital output:

BNC  $\times 1$ , compliant with SMPTE259M-C  
standard

#### Headphones:

M3 stereo, variable level (max. -25 dBu), 8  $\Omega$ ,  
VTR1/VTR2 selectable, L/STEREO/R selectable

### ■ OTHER

#### TC input:

BNC  $\times 1$ , 0.5 to 8 V [P-P], 10 k $\Omega$

#### TC output:

BNC  $\times 2$  (VTR1, VTR2, video monitor output  
connectors selectable), 2.0 V [P-P], 75  $\Omega$

#### Remote: (625i mode only)

D-sub 9-pin  $\times 2$  (VTR1, VTR2)  
RS-422A interface  
REMOTE IN/OUT selectable for VTR1  
REMOTE IN only for VTR2

#### EDL input/output:

D-sub 9-pin, RS-232C interface



# Specifications

---

## [LCD MONITOR]

### **LCD panel:**

7-inch wide-screen TFT active matrix ×2 (VTR1, VTR2), wide-screen/normal selectable (blank sides in normal mode), 525i/625i selectable

### **Brightness adjustment:**

Controls ×2 (VTR1, VTR2)

### **Picture quality adjustment:**

Colour, tint (separate on-screen display menus for left, right)  
(Tint: 525i mode only)

### **Backlight selection:**

Bright, dark, off (separate switches for left, right)

## [SPEAKERS]

Internal speakers ×2, VTR1/VTR2 selectable,  
L/STEREO/R selectable

## [DISPLAY TUBES]

### ■ **Counter/mode display tubes (VTR1, VTR2)**

#### **Counter:**

8 digits (CTL/TC/UB selectable, total tape amount, remaining tape amount, DC voltage)

#### **Audio level meter:**

16 segments, 4 channels, FULL/FINE selectable

#### **Other:**

525, 25/50 Mbps, CF, servo lock, tape travel mode, DF, wide screen, recording/edit recording /recording inhibit, video/REF input, SDI output

### ■ **Event/edit point display tube**

Event numbers, edit IN and OUT points, split (A SP or V SP), split IN point



# Caution for AC Mains Lead

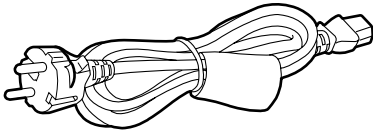
## FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.

Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

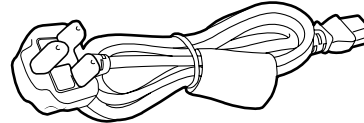
### FOR CONTINENTAL EUROPE, ETC.

Not to be used in the U.K.



### FOR U.K. ONLY

If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.



## FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 13 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.


If in any doubt please consult a qualified electrician.

**WARNING: THIS APPLIANCE MUST BE EARTHED.**

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:

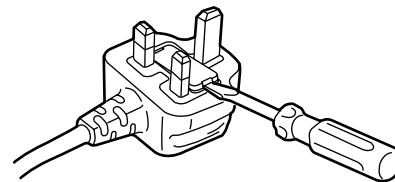
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

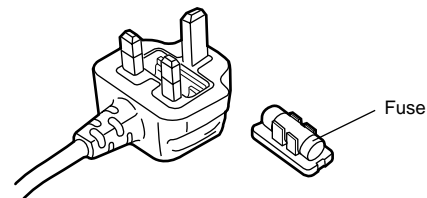
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol  or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

### How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.





# SAFETY PRECAUTIONS

## GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

## LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5MΩ.

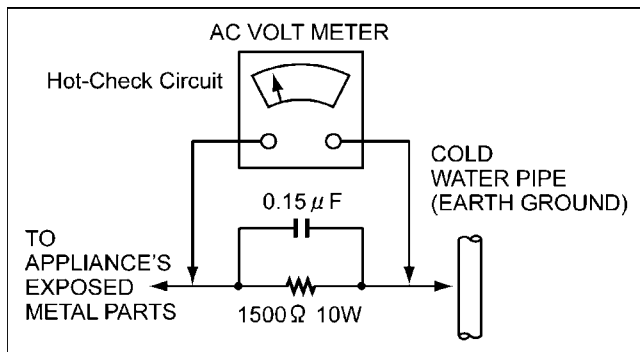


Figure1

## LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.  
Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ , 10W resistor, in parallel with a 0.15μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

## ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.  
Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.  
(most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.  
**CAUTION :** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpacked replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

## X-RADIATION

### WARNING

1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing x-radiation.

**Note :** It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ± 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an x-radiation possibility, it is essential to use the specified picture tube.



# SECTION 2

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## SERVICE INFORMATION

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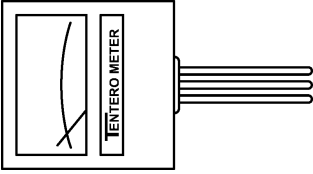
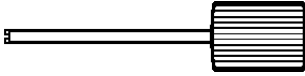
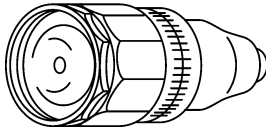
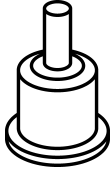
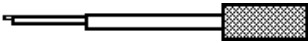
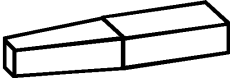
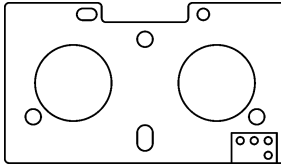
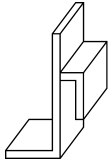
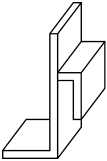
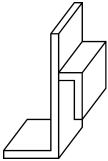
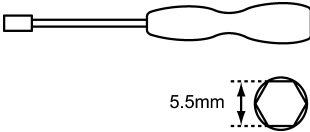
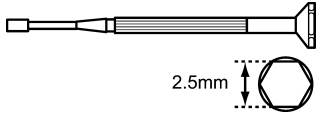
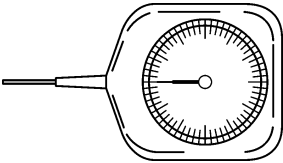
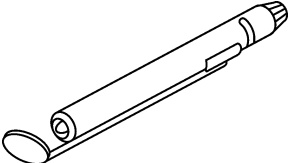
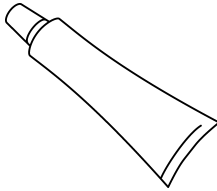
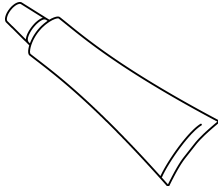
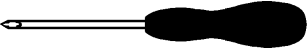
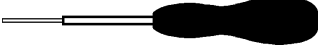
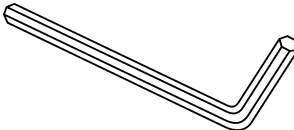
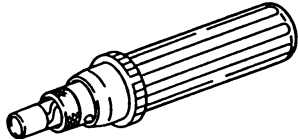
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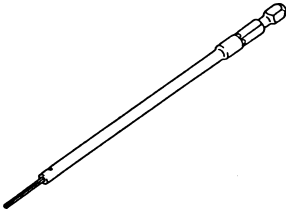
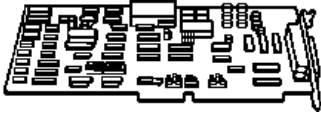
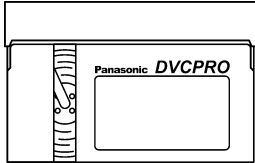
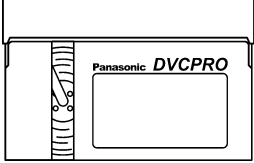
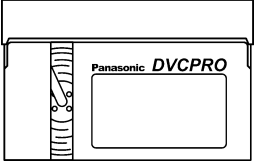
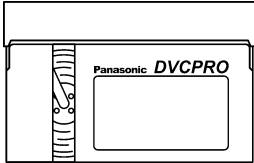
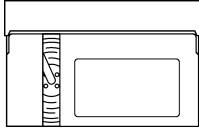
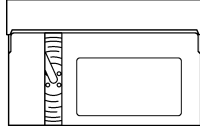
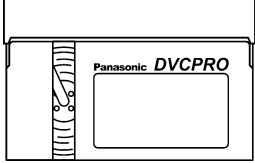
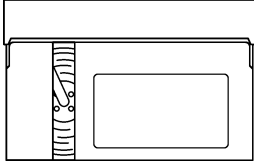
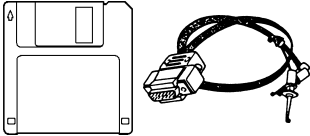
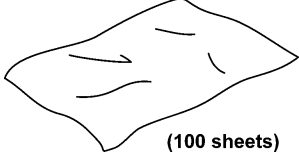
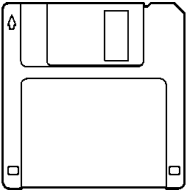
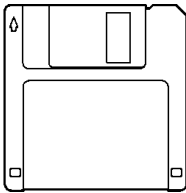
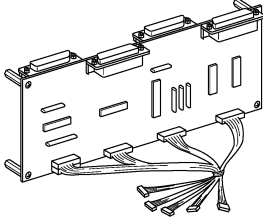


# 1. Servicing Fixtures & Tools

No.	PART No.	FIXTURE & TOOL NAME	REMARK
1	VFK1145A	Back Tension Meter	
2	VFK1149A	Post Driver	
3	VFK71A	Dial Torque Gauge (1.5cN·m)	150g
4	VFK1191A	Dial Torque Gauge (0.45cN·m)	45g
5	VFK1152	Dial Torque Gauge Adapter	
6	VFK0357	Eccentric Driver (1.5mm)	
7	VFK1154	Post Height Fixture	
8	VFK1153	Neutral Position Plate	
9	VFK1208	Neutral Position Tool (Black with Hole)	
10	VFK1156	PLAY Posotion Tool (Black without Hole)	
11	VFK1155	REV Position Tool (Silver)	
12	VFK1150	Nut Driver (5.5mm)	
13	VFK1151	Nut Driver (2.5mm)	
14	VFK1188A	Dial Tension Gauge (300mN)	30g
15	VFK0948A	Check Light	
16	VFK0749	Froiral Grease (White)	For Plastic Parts
17	MOR265	Morlytone Grease (Black)	For Metal Parts
18	VFK1146	Phillips Driver (00 - 75)	
19	VFK1147	Phillips Driver (00 - 100)	
20	VFK1148	Hex Driver (1.5mm)	
21	VFK1178	Hex Driver (0.89mm)	
22	VFK1179	Hex Driver (0.71mm)	
23	VFK1190	Hex Wrench	
24	VFK1209A	Torque Driver (4cN·m-30cN·m)	(0.4kgf·cm -3kgf·cm)
25	VFK1375	Post Axis Driver (1.5mm)	Substitute for VFK0912
26	VFK1300	A/D Board (DAQ-12 Quatech)	
27	VFM3680KM	DVCPRO Alignment Tape (No.1) (for PAL)	or VFM3680KL
28	VFM3681KM	DVCPRO Alignment Tape (No.2) (for PAL)	or VFM3681KL
29	VFM3682KM	DVCPRO Alignment Tape (No.3) (for PAL)	or VFM3582KL
30	VFM3580KM	DVCPRO Alignment Tape (No.1) (for NTSC)	or VFM3680KL
31	VFM3480KM	DVCPRO 50 Alignment Tape (for PAL)	
32	VFM3683KM	DVCPRO 25 Auto EQ Alignment Tape (for PAL)	
33	VFM3110EDS	DV Alignment Tape (Colour Bar) (for PAL)	
34	VFM3000EDS	DV Alignment Tape (LISTA)	
35	AJ-CL12MP	Cleaning Tape	Sales route
36	VFK1369	Tape Beg./End Detection Cassette	
37	VFK1481A	LISTA Software	
38	VFK1186	LISTA Cable	
39	VZZ0095	Cleaning Cloth	
40	VFK1248E	Flash Memory Version-up Software	
41	VFK1503	Servo Version-up Software	
42	VFK1590	CPLD WRITER	
43	VFK0906	Lubricating Oil	
44	————	EE Cleaner (OLYMPUS CHEMITECH)	



<b>1 VFK1145A</b> Back Tension Meter 	<b>2 VFK1149A</b> Post Driver 	<b>3 VFK71A</b> <b>4 VFK1191A</b> Dial Torque Gauge 	<b>5 VFK1152</b> Dial Torque Gauge Adapter 
<b>6 VFK0357</b> Eccentric Driver (1.5mm) 	<b>7 VFK1154</b> Post Height Fixture 	<b>8 VFK1153</b> Neutral Position PLate 	<b>9 VFK1208</b> Neutral Position Tool (Black with Hole) 
<b>10 VFK1156</b> PLAY Position Tool (Black without Hole) 	<b>11 VFK1155</b> REV Position Tool (Silver) 	<b>12 VFK1150</b> Nut Driver (5.5mm) 	<b>13 VFK1151</b> Nut Driver (2.5mm) 
<b>14 VFK1188A</b> Dial Tension Gauge (30mN) 	<b>15 VFK0948A</b> Check Light 	<b>16 VFK0749</b> Froiral Grease (White) (for Plastic Parts) 	<b>17 MOR265</b> Morlytone Grease (Black) (for Metal Parts) 
<b>18 VFK1146 (00X75)</b> <b>19 VFK1147 (0X100)</b> Phillips Driver 	<b>20 VFK1148 (1.5mm)</b> <b>21 VFK1178 (0.89mm)</b> <b>22 VFK1179 (0.71mm)</b> Hex Driver 	<b>23 VFK1190</b> Hex Wrench 	<b>24 VFK1209A</b> Torque Driver 



<b>25 VFK1375</b> Post Axis Driver 	<b>26 VFK1300</b> A/D Board (Quatech DAQ-12) 	<b>27 VFM3680KM or KL</b> <b>28 VFM3681KM or KL</b> <b>29 VFM3682KM or KL</b> DVCPRO Alignment Tape (PAL) 	<b>30 VFM3580KM or KL</b> DVCPRO Alignment Tape (NTSC) 
<b>31 VFM3480KM</b> DVCPRO 50 Alignment Tape (PAL) 	<b>32 VFM3683KM</b> DVCPRO 25 AUTO EQ Alignment Tape (PAL) 	<b>33 VFM3110EDS</b> DV Alignment Tape (Colour Bar : PAL) 	<b>34 VFM3000EDS</b> DV Alignment Tape (LISTA) 
<b>35 AJ-CL12MP</b> Cleaning Tape 	<b>36 VFK1369</b> Tape Beg./End Detection Cassette 	<b>37 VFK1481A</b> LISTA Software <b>38 VFK1186</b> LISTA Cable 	<b>39 VZZ0095</b> Cleaning Cloth  (100 sheets)
<b>40 VFK1248E</b> Flash Memory Version-up Software 	<b>41 VFK1503</b> Servo Version-up Software 	<b>42 VFK1590</b> CPLD WRITER 	<b>43 VFK0906</b> Lubricating Oil 
<b>44 EE Cleaner</b> 			



## 2. Alignment Tape

### 2-1. VFM3580KM / L (NTSC) (25M adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar SMPTE(75%)	Confirmation of the composite video level	1KHz -20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
7:00	Color bar (100%)	Confirmation of the composite video level				
14:00	H sweep	Frequency characteristic			6KHz 0VU	A/C head azimuth adjustment
18:00	Bow tie (500K)	Y/C timing			300, 500, 1K 2K, 4K, 6KHz	Frequency characteristic
22:00	Pulse & bar	Y/C timing				
26:00	Area marker	Video start timing			-----	-----

### 2-2. VFM3680KM / L (PAL) (25M adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar 100%	Confirmation of the composite video level	1KHz -18dBu	Audio level Confirmation	1KHz Reference level	Confirmation of the cue level
10:00	H Sweep	Frequency Response			6KHz Reference level	A/C head azimuth adjustment
14:00	Area Markers					
18:00	Bowtie (500K)	Y/C Timing			1KHz 300KHz~6KHz	Frequency Response
22:00	Pluse & Bar	Y/C Timing				
26:00 30:00	Multi Pulse	Y/C Timing				-----

### 2-3. VFM3681KM / L (PAL) (LISTA adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

### 2-4. VFM3682KM / L (PAL) (X-value adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar (75%) (with drop-out track)	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment



**2-5. VFM3010EDS (NTSC)/ VFM3110EDS (PAL) (DV adjustment tape)**

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar	EQ adjustment	1,102.5KHz		-----	-----

**2-6. VFM3000EDS (DV (LISTA) adjustment tape)**

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	LISTA signal	Adjustment of the linearity	-----	-----	-----	-----

**2-7. VFM3480KM (PAL) (50M adjustment tape)**

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar (with teletext) (100%)	Confirmation of video level and teletext level	997KHz -20dBu	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
4:00	Color bar (75%)	Confirmation of the video level				
7:00	Multiburst (Y/Pb/Pr)	Frequency characteristic				
10:00	Multiburst (Y)	Y-Frequency characteristic				
13:00	Bowtie	Y/C Timing				
16:00	Area Marker	Video start timing				

**2-8. VFM3683KM (PAL) (25 AUTO EQ adjustment tape)**



### 3. List of Recommended Measuring Instruments

MODEL NO. (Example)	NAME	REMARK
TSG1910 (NTSC)	NTSC analog composite signal generator (with CF OUT)	Tectronix
TSG1411 (PAL)	PAL analog composite signal generator (with CF OUT)	
1760 (op. SC) or 1780R	SCH meter (NTSC)	
	Waveform monitor (NTSC)	
	Vector scope (NTSC)	
1761 (op. SC) or 1781R	SCH meter (PAL)	
	Waveform monitor (PAL)	
	Vector scope (PAL)	
	Oscilloscope	
	Digital voltmeter (D.V.M.)	
	Frequency counter	
	Audio noise meter	
	Audio analyzer	



## 4. Maintenance

### 4-1. Maintenance Schedule

VTR uses many wearable components. Deterioration and/or wear of them may cause some malfunction. Dust and dirt also may cause it. Therefore the following preventive maintenance is recommended to be done periodically in order to maintain VTR in the good condition so that VTR can work stably.

	Part name	Part No.	Hours of use (unit: hours)					
			2,000H	4,000H	6,000H	8,000H	10,000H	12,000H
-	Cleaning of the tape transport	-----	<b>C: Every 500 hours</b>					
-	Mechanical Chassis Unit	VXY1538Z1						R
1	Cylinder Unit	VEG1501	R	R	R	R	R	IM
2	Pinch Arm Unit	VXL2835	R, G	R, G	R, G	R, G	R, G	IM
3	Cleaning Arm Unit	VXL3027	R	R	R	R	R	IM
4	S Reel Motor Unit	VEM0686		R		R		IM
5	T Reel Motor Unit	VEM0687		R		R		IM
6	Thrust Screw	VXQ0556		R, L		R, L		IM
7	S1 Loading Arm Unit	VXL2812			R			IM
8	T1 Boat Unit	VXA6379			R			IM
9	S5 Post Base Unit	VXA6052			R			IM
10	Tension Arm Unit	VXL2832			R			IM
11	A/C Head Unit	VED0419						IM
12	Loading Motor Unit	VEM0645						IM
13	Reel Drive Motor Unit	VEM0585						IM
14	Mode SW Unit	VES0918						IM
15	Pinch Solenoid	VSJ0227						IM
16	S Brake Solenoid	VSJ0216						IM
17	T Brake Solenoid	VSJ0216						IM
18	Distinction SW Unit	VXA6199						IM
19	Cleaner Solenoid	VSJ0226						IM
20	Main Cam Gear	VDG1168						IM
21	M Stopper Solenoid	VSJ0216						IM
-	Front Loading Unit	VXA6593						R
-	Slot In Motor	VXA5597						F
-	Fan Motor	VRF0208	Replace after every 10,000 h of operation time					
-	LCD Unit	TR-LM7WS1VS	Replace after every 10,000 h of operation time					

**Replacement of the mechanical chassis unit is recommended for the 12,000 h maintenance.**

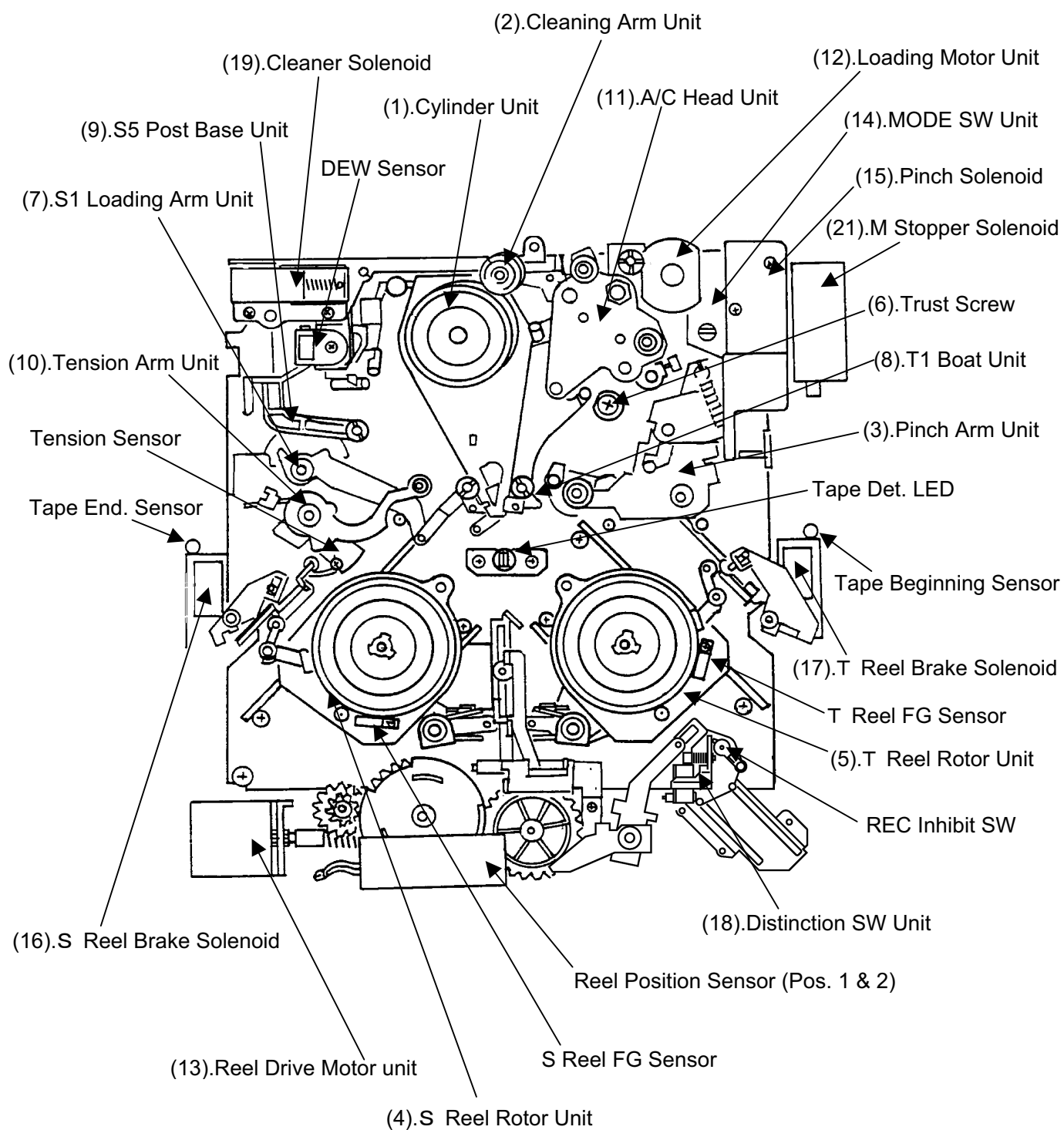
- C** : Perform cleaning.  
**R** : Objective parts to be replaced.  
**G** : At the time of replacement, wipe off the old grease and apply new grease. (Morlytone grease)  
**L** : Lubrication is necessary.  
**IM** : Included in the mechanical chassis unit.  
 When the mechanical chassis unit is not replaced, replacement as a single part is required.  
**F** : Included in the front-loading unit.

#### <Note:>

The Hours of use indicates the cylinder rotation time (DRUM RUN).  
 The maintenance execution time shown in the chart is recommendation for standard maintenance execution. This is not the life of the various parts. The life is influenced by temperature, humidity, dust, etc.  
 Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.



## 4-2. Layout of the Maintenance Parts





## 4-3. Mechanical Adjustment

Please perform adjustment and replacement following this section and separated service manual "DVC PRO MECHANISM" (order No.VSD9912M914) together.

### 4-3-1. Table of TEST POINT

Name		AJ-LT95	
		VTR 1	VTR 2
[ Tension Arm Adjustment ]			
TENSION		ENCORDER VR1board: TP8	ENCORDER VR2 board: TP8
TENSION OFFSET		“A05 : TENSION OFST” (Service menu)	“A05 : TENSION OFST” (Service menu)
TENSION GAIN		ENCORDER VR1 board: VR7	ENCORDER VR2 board: VR7
[ Photo Sensor Voltage Adjustment ]			
S-side & T-side SENSOR VOLTAGE		“I02 : S PHOTO/T PHOTO” (Service menu)	“I02 : S PHOTO/T PHOTO” (Service menu)
Adjustment Point of S-side		MAIN CONTROL board: VR602(VTR1 side)	MAIN CONTROL board: VR602(VTR2 side)
Adjustment Point of T-side		MAIN CONTROL board: VR601(VTR1 side)	MAIN CONTROL board: VR601(VTR2 side)
[ Tape Pass, A/C Head Adjustment ]			
R/P-ENV L		RF AMP 1 board: TP401 (selected by Service menu)	RF AMP 2 board: TP601
PB/ENV L			RF AMP 2 board: TP701
R/P-ENV R		RF AMP 1 board: TP501 (selected by Service menu)	RF AMP 2 board: TP401
PB/ENV R			RF AMP 2 board: TP501
R/P-HSW L		ENCORDER VR1 board: TP7 (selected by Service menu)	ENCORDER VR2 board: TP7
PB-HSW L			RF AMP 2 board: TP901
LIVE-CTL		ENCORDER VR1 board: TP2	ENCORDER VR2 board: TP2
CUE		AUDIO VIDEO : TP40501(FRONT side)	AUDIO VIDEO : TP45501(REAR side)
[ LISTA Adjustment ]			
ATF ERR		DIGITAL1 board: TP3512	DIGITAL2 board: TP54321
TRG	R/P HSW L	ENCORDER VR1 board: TP7 (selected by Service menu)	ENCORDER VR2 board: TP7
	PB HSW L		RF AMP 2 board: TP901
ATF GAIN		Select the EVR on the SERVICE MENU (Refer to following table <LISTA Adjustment Mode>)	

#### <A/C Head Adjustment Mode>

Adjustment Name	Format select	Adjustment mode (Selected on SERVICE MENU)
Azimuth, X value adj.	25M	Select the item "RP LIN 25M"
	50M	Select the item "RP LIN 50M"

#### <LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode		
	Format Select (LISTA soft)	Selected Item on Service Menu	TRG Connection
Sens. Adjustment (R/P Head)	50M mode	"A10 : RP GAIN 50M"	R/P-HSW L
Linearity Adjustment		"A11 : RP LIN 50M"	R/P-HSW L
Sens. Adjustment (PB Head)		"A12 : PB GAIN 50M"	PB-HSW L
Sens. Adjustment (R/P Head) (25M compatibility)	25M mode	"A14 : RP GAIN 25M"	R/P-HSW L
Linearity Adjustment (25M compatibility)		"A15 : RP LIN25M"	R/P-HSW L
Sens. Adjustment (PB Head) (25M compatibility)		"A16 : PB GAIN 25M"	PB-HSW L



### 4-3-2. Classified list

< Mechanical Adjustment Procedure (page 2-11 to 2-52) of DVCPRO MECHANISM Service manual >

ITEM	PAGE Number	The number or character on classified list apply to AJ-LT95
3-9. Photo Sensor Voltage Adjustment	2-16	C (After select the item on service menu, adjust VR on the board.)
3-11. Envelope Waveform Adjustment	2-18	E
3-15. A/C Head Height Adjustment	2-22	E
3-17. A/C Head Height Confirmation	2-24	E
3-18. A/C Head Azimuth and X-value Adjustment (50M)	2-26	A
3-19. REV Tape Pass Confirmation and Adjustment	2-29	E
3-20. REV (-1) Mode Setting procedure	2-30	②
3-21. CTL Self recording Level Confirmation	2-30	E
3-23. Confirmation of Envelope REV,REW and FF mode	2-31	B
3-29. LISTA Adjustment Procedure	2-35	Procedure (4)
3-30. LISTA Connection and Boot Up	2-39	A
3-32. LISTA Sensitivity Adjustment and Sensitivity Detection	2-43	G
3-34. Self-REC/PLAY Envelope Waveform Confirmation	2-51	B

In addition to items indicated above table, select "DVCPRO 50" on «FORMAT SELECT» screen and select "AJ-D950" on «VIDEO SELECT» screen for menu selection after boot up of LISTA Software that is described on page 2-40.

### 4-3-3. Connector Number and Name of P.C.Board

< Major Mechanical Parts Replacement and Adjustment Procedure (Page 3-1 to 3-25) of DVCPRO MECHANISM Service manual >

ITEM	Page Number	Connector Number (Common for VTR1 & 2)	Name of P.C.Board (Common for VTR1 & 2)
1-1. Cylinder Unit Replacement	3-1	(A): P23133	(B): Servo Drive
1-5. Supply & Take-up Reel Rotor Unit Replacement	3-4	(A): P23134, (B): P23135	(B): Servo Drive
1-8. Supply Brake Solenoid Replacement and Adj.	3-7	(A): P23115	(B): Servo Drive
1-9. Take-up Brake Solenoid Replacement and Adj.	3-8	(A): P23115	(B): Servo Drive
1-10. Pinch Solenoid Replacement	3-9	(A): P23120	(B): Servo Drive
1-13. Loading Motor Replacement	3-10	(A): P23121	(B): Servo Drive
1-14. Mode SW Unit Replacement	3-11	(A): P23122	(B): Servo Drive
1-23. A/C Head Replacement & Adjustment	3-18	(A): P52006(VTR1)	(B): RF AMP 2
		(A): P52004(VTR2)	
		(C): P23130	(D): Servo Drive
1-24. Cleaner Solenoid Replacement & Adj.	3-20	(A): P23111	(B): Servo Drive
1-25. Distinction SW Unit Replacement	3-21	(A): P23117	(B): Servo Drive
1-27. Reel Drive Motor Unit Replacement	3-22	(A): P23116	(B): Servo Drive
1-30. M-Stopper Solenoid Replacement & Adj.	3-24	(A): P23124	(B): Servo Drive

In addition to items indicated above table, TYPE A on CHART C is for AJ-LT95 to implement "1-6. Main Brake Torque confirmation" on page 3-6.

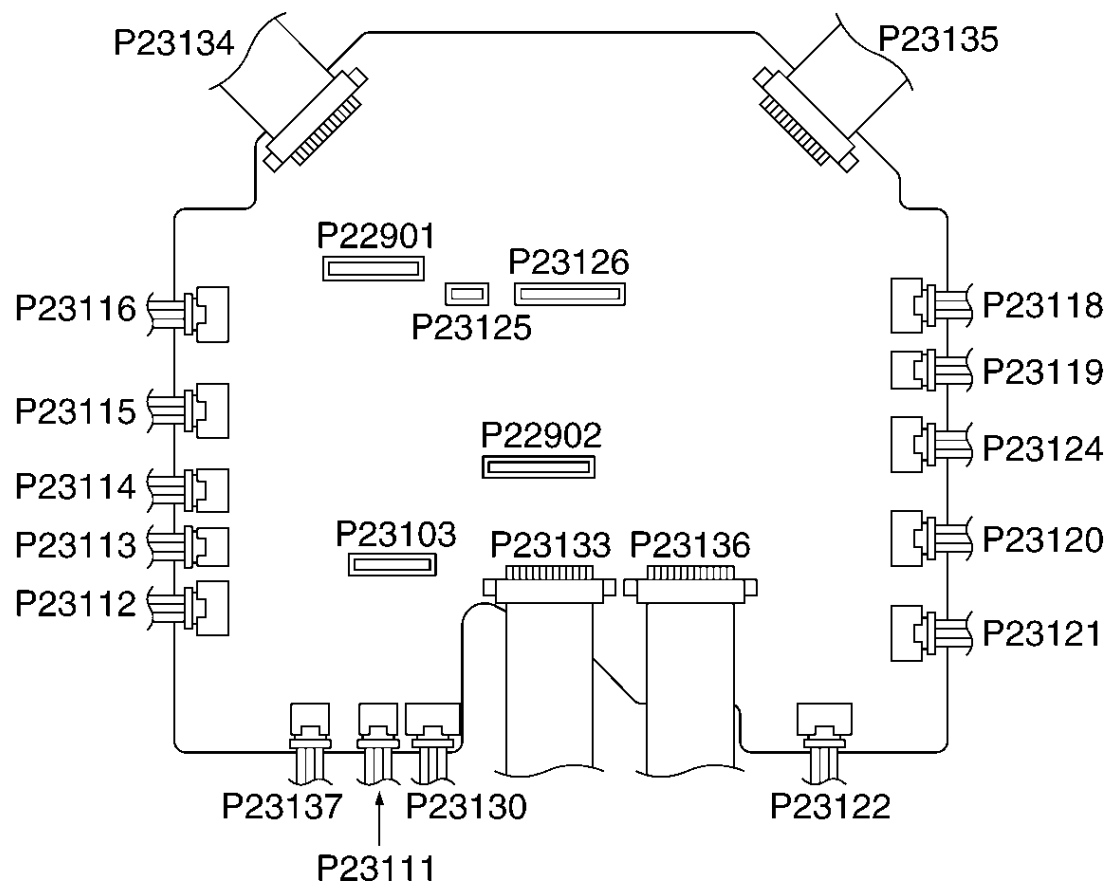
### 4-3-4. No Tape Loading Procedure

[ Procedure ]

Selected Menu (on Service Menu)	Selected Item	Loading Procedure	Unloading Procedure
SERVO ADJUST	T TORQUE	Press VTR1/2 button	Press C button



#### 4-3-5. Connector Location of Servo P.C.Board





## 5. Manual Tape Eject Method

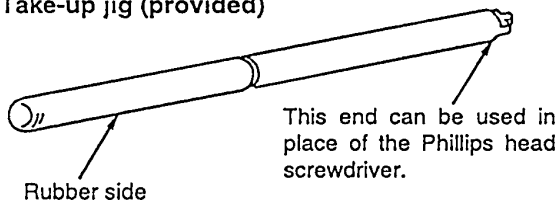
When a tape can not be ejected by some trouble, the tape can be removed manually as follows.

1. Turns power off and remove the Top Case Unit.
2. Rotate the red plastic screw by a Phillips - head screwdriver counterclockwise pushing the screw. It needs to rotate until post start to move.(see ②)
3. Since tape slack will occur when the post is unloaded, rotate the supply reel to wind up the tape.

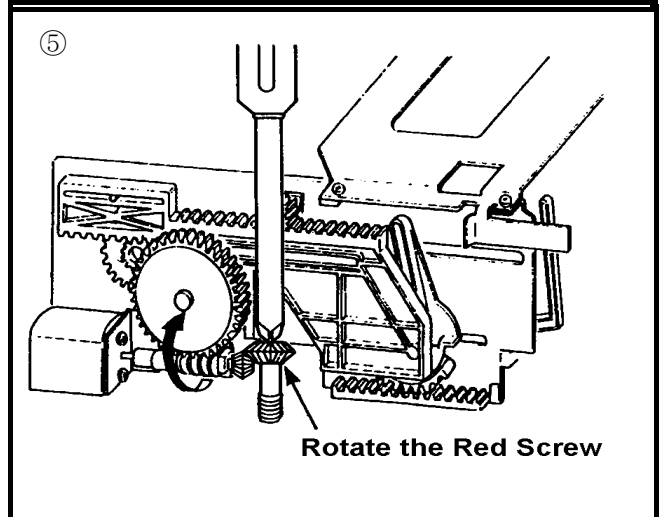
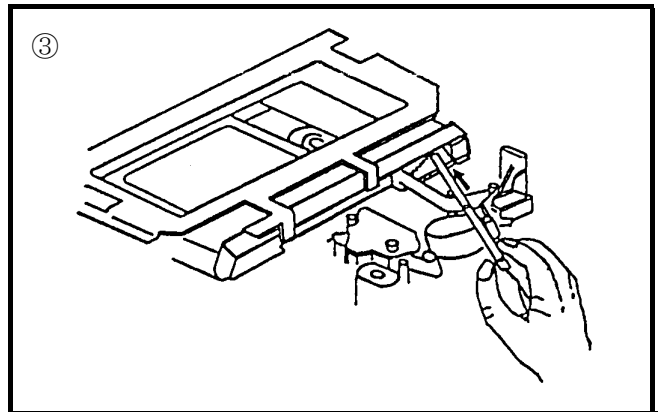
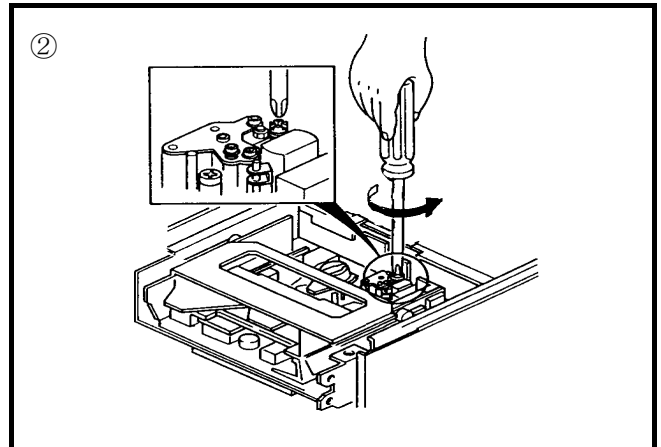
How to wind up the tape (see ③)

- a. Insert the rubber side of the take-up jig to the cassette rid opening position from mechanism side.
- b. Turn the flange of the supply reel in the direction of winding up to eliminate the tape slack. (Take care not to damage the tape in the process.)

Take-up jig (provided)



4. Repeat item 2 and 3 until the tape is wound up completely inside of the cassette.
5. When the tape is completely gotten inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a Philips-head screwdriver pushing the screw. Remove the cassette with care not to pinch the tape by cassette rid when it close.





## 6. Cleaning Procedures

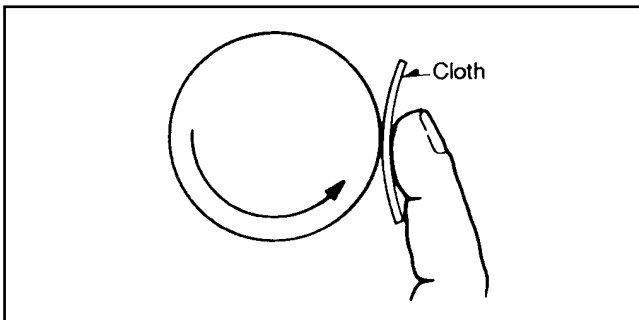
**Note:** Turns power off during cleaning.

Make sure the power is OFF before cleaning.

Use ethanol(more than 99% purity) as cleaning liquid.

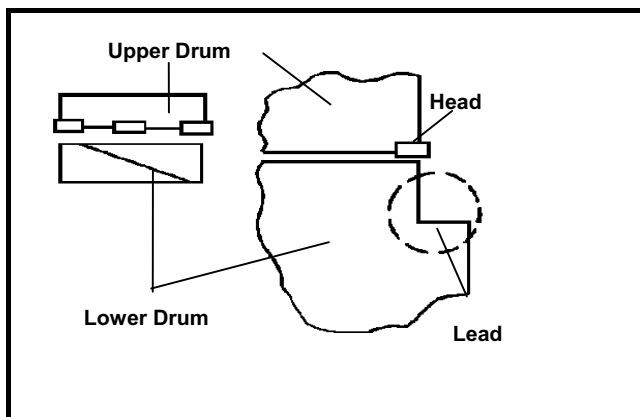
### 6-1 Cleaning of Head Chips: (Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



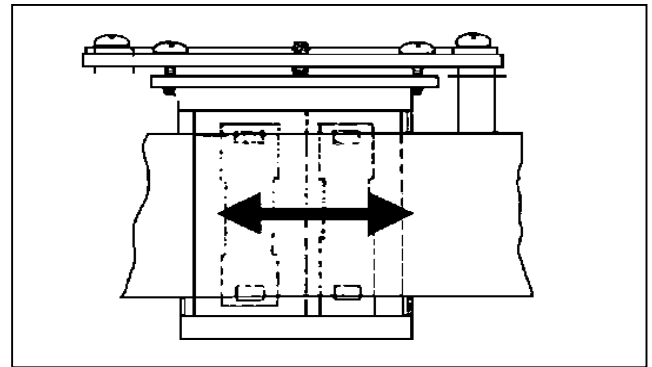
### 6-2. Cleaning of Cylinder Lead: (Weekly)

Be careful not to touch a head chip. Clean the Cylinder lead with a tooth pick.



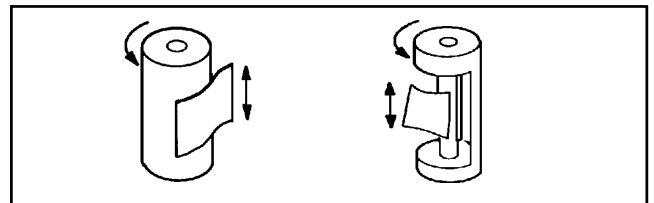
### 6-3. Cleaning of A/C Head: (Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



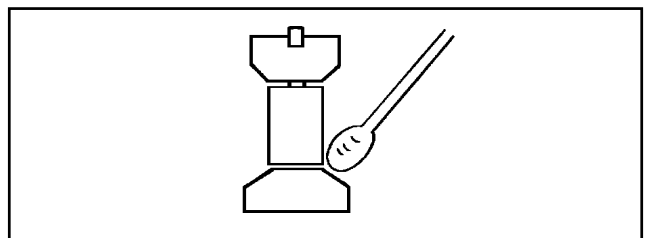
### 6-4. Cleaning of Pinch Roller and Capstan: (Weekly)

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



### 6-5. Cleaning of Post :(Weekly)

Wind a cloth on a pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry cloth again.



**Note:**

Use the clean cloth for cleaning purpose. Do not use any dirty cloth.

The Cleaning Cloth can be ordered as service part. The part number indicated as below.

CLEANING CLOTH : VZZ0095



## 7. Software Version and Hour Meter Confirmation Procedure

- Display the Software version
- Display the Hour Meter

The units system software version and hour meter can be viewed on the DIAG menu.

### 7-1. To get into the DIAG mode (To display Hour Meter)

- (1). Press the DIAG (SHIFT + 9) buttons. (This cannot be done by remote control)

The hour meter display appears on the VTR 1 and VTR 2 monitor screens.

**Note :** The Operation hour is displayed on only VTR2 monitor screen.

- (2). Turn the Search Dial to move item.

Turn it clockwise (FWD) to move down and counterclockwise (REV) to move up.

**Note :** Remember that the selection cannot be done in the shuttle mode. Set the unit to the JOG mode.

DIAG-MENU HOUR METER			
<VTR 1>			
* H01	DRUM RUN		10000H
H02	TAPE RUN		10000H
H03	THREADING		10000T
H11	DRUM RUN r		10000H
H12	TAPE RUN r		10000H
H13	THREADING r		10000T

Hour Meter Display (VTR1 side)

DIAG-MENU HOUR METER			
<VTR 2>			
* H00	OPERATION		10000H
H01	DRUM RUN		10000H
H02	TAPE RUN		10000H
H03	THREADING		10000T
H11	DRUM RUN r		10000H
H12	TAPE RUN r		10000H
H13	THREADING r		10000T

Hour Meter Display (VTR2 side)

Details of the hour meter display are given below.

Item		Data	Description
No.	Display	Display	
H00	OPERATION	00000H     99999H	The period of time how long power has been on by the unit of hour.
H01	DRUM RUN	00000H     99999H	The period of time how long drum has been rotating by the unit of hour.
H02	TAPE RUN	00000H     99999H	The period of time how long the tape transport has worked in the fast forward, rewind, play, search (JOG, VAR, SHTL), recording or editing mode (but not in the STILL mode with JOG, VAR and SHTL) by the unit of hour.
H03	THREADING	00000T     99999T	The number how many times the tape threading and unthreading has been done.



## 7-2. To display the software version

(1). Press the SHIFT + FF buttons so that the display changes from hour meter to software version.

**NOTE:** Display software is displayed on only VTR1 side. KEYBOARD software version is displayed on only VTR2 side. And also DV/R software version displayed on only VTR2 side.

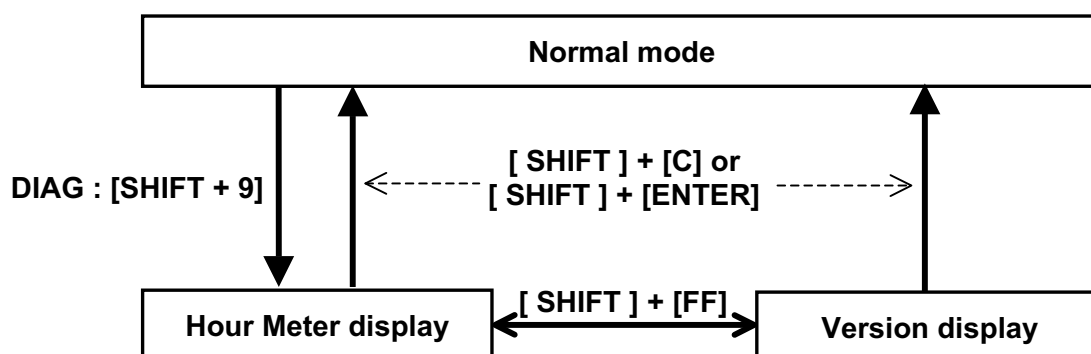
DIAG-MENU VERSION	
<VTR 1>	
DISPLAY	Ver<1.00-00-0.00>
AV-SYSCON	Ver<1.00-00-0.00>
SERVO	Ver<1.00-00-0.00>
DV/P	Ver<1.00-00-0.00>
END	

Version Display (VTR1 side)

DIAG-MENU VERSION	
<VTR 2>	
KEYBOAED	Ver<1.00-00-0.00>
AV-SYSCON	Ver<1.00-00-0.00>
SERVO	Ver<1.00-00-0.00>
DV/P	Ver<1.00-00-0.00>
DV/R	Ver<1.00-00-0.00>
END	

Version Display (VTR2 side)

## 7-3. DIAG menu display mode



- Press the DIAG [ SHIFT ] + [ 9 ] buttons so that the display change to DIAG mode from normal mode. Then Hour Meter display appear on screen first.
- Display changes hour meter or version by press the [ SHIFT ] + [ FF ] buttons alternately.
- Press the [ SHIFT ] + [ C ] or [ SHIFT ] + [ ENTER ] buttons, then it move back to normal mode from the DIAG mode.



## 8. Hour Meter Reset Procedure

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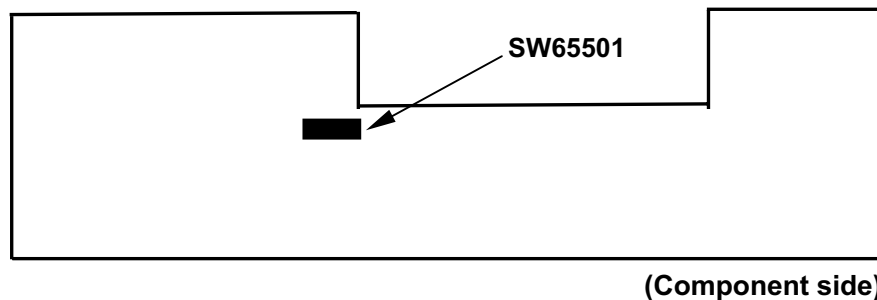
1. Eject tape.
2. Set the bit5 to OFF and bit6 to ON of SW65501 on MAIN CONTROL P.C. Board.
3. Press the DIAG (SHIFT + 9) buttons. The hour meter display appears on the VTR 1 and VTR 2 monitor screens.
4. Set the cursor to mark "r" indicated item (item H11 to H13).  
**NOTE:** The Hour Meter indication can be reset individually, DRUM RUN r, TAPE RUN r, and THREADING r.
5. Press the reset button (VTR 1 and VTR 2 side follow your request), then following message appears.

**< In case of select the DRUM RUN r >**

HOUR NETER INIT SET  
<VTR—1>  
DRUM RUN r OK?  
YES <PLAY> / NO <STILL>

6. To execute the reset function, press "PLAY" button.
7. To cancel the reset function, press "STILL" button.

### MAIN CONTROL P.C. Board





## 9. Software Version Upgrade Method

### 9-1. Service Operation of Software Version Upgrade.

In AJ-LT95, some software which DIAG menu can display version and PLDs are installed. Please refer to type of IC as indicated in below.

	Name	Type	Board	Ref No.	Location
—	DISPLAY	Microprocessor	Display Control	IC68002	F1
	KEYBOARD	FLASH Memory	Main Control	IC65001	C1
VTR1	AV-SYSCON	FLASH Memory	Main Control	IC60101	B3
	SERVO	FLASH Memory	Main Control	IC21102	D3
	DV/P	Microprocessor	DIGITAL 1	VEP88234U	F5
	PLD	EPROM	Main Control	IC60201	B1
	PLD	EPROM	Main Control	IC21201	C2
	PLD	EPROM	Main Control	IC21901	F4
	PLD	One time ROM	DIGITAL 1	IC30002	B4
	PLD	One time ROM	DIGITAL 1	IC34102	D3
	PLD	One time ROM	DIGITAL 1	IC30502	B1
VTR2	AV-SYSCON	FLASH Memory	Main Control	IC62101	L3
	SERVO	FLASH Memory	Main Control	IC21502	H3
	DV/P	Microprocessor	DIGITAL 2	VEP88234U	I1
	DV/R	Microprocessor	DIGITAL 2	VEP88234U	I4
	PLD	EPROM	Main Control	IC62201	L1
	PLD	EPROM	Main Control	IC21601	J2
	PLD	One time ROM	DIGITAL 2	IC30252	E5
	PLD	One time ROM	DIGITAL 2	IC30502	B1

The Microprocessor on Display Control Board, which is type of ISP, is soldered on the board. Please replace it to new IC for version upgrade.

The Flash Memory (Built-in Microcomputer with Flash Memory) on Main Control board can be upgraded by version up software. Upgrade procedure is mentioned in this section.

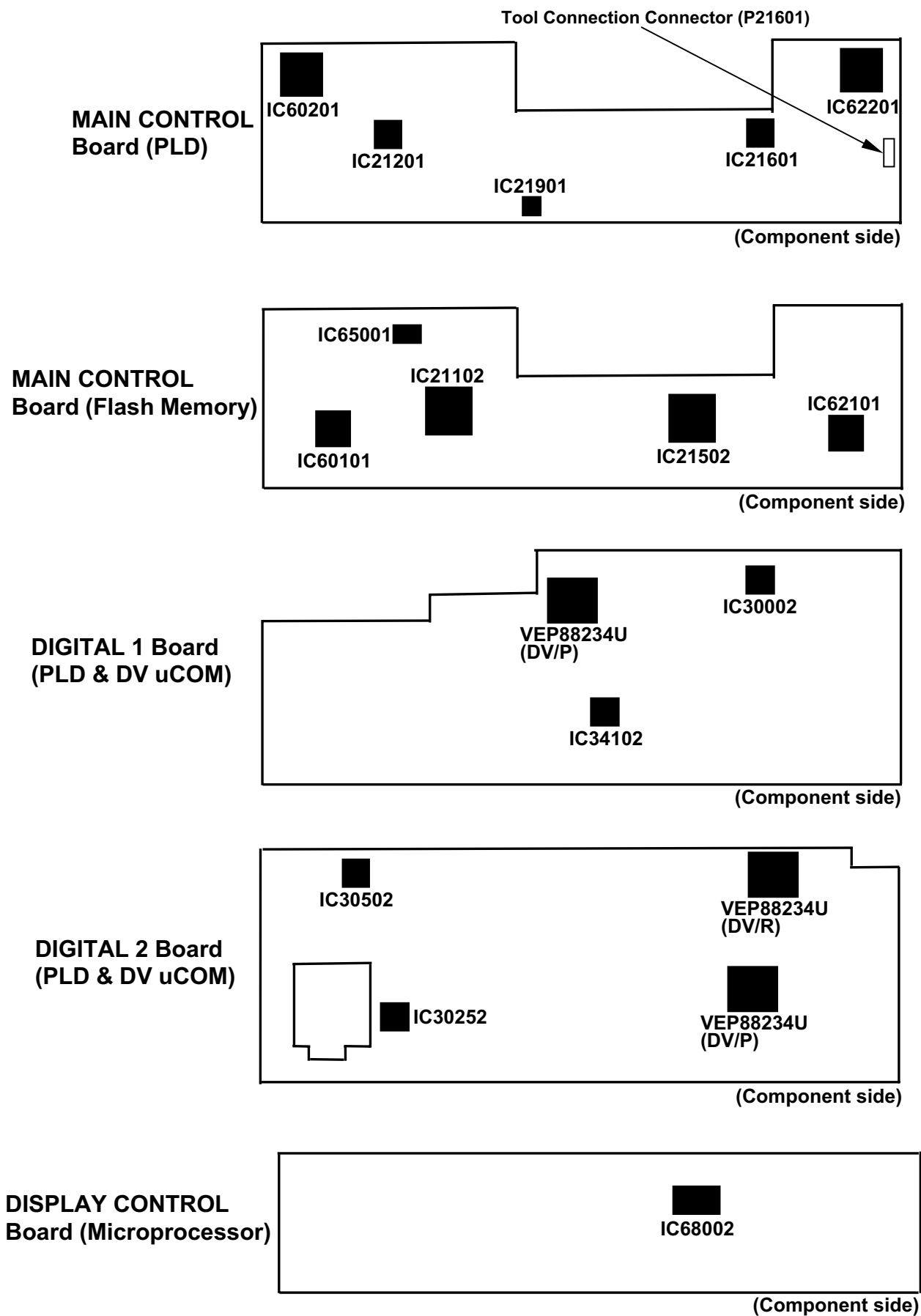
The Microprocessor on DIGITAL 1 and 2 board are soldered on small board (DV uCOM board). The DV uCOM board is inserted to IC socket on DIGITAL board. Please replace it to new DV uCOM board for version upgrade.

The PLD on DIGITAL 1 and 2 board, which is type of One time ROM, is inserted to IC socket. Please replace it to new IC for version upgrade.

The PLD on MAIN CONTROL board can be upgraded with the PLD writer. Connect the PLD writer to respective connector on MAIN CONTROL board and run the PLD writing software. Following chart shows reference number of connectors and PLD manufacturer.

board	Ref No.	Connector	Number of pins	PLD Maker
MAIN CONTROL	IC62201	P21601	8P	XILINX
MAIN CONTROL	IC60201	P21601	8P	XILINX
MAIN CONTROL	IC21201	P21601	8P	XILINX
MAIN CONTROL	IC21601	P21601	8P	XILINX
MAIN CONTROL	IC21901	P21601	8P	XILINX







## 9-2. Version Upgrade for the Built-in Microcomputer with Flash Memory

The microcomputers (A/V, KEYBOARD, SERVO) on the **MAIN CONTROL** circuit boards have built-in flash memory. For the KEYBOARD and AV software version up, use the “**Flash memory version up software (VFK1248E)**”. For the Servo software version up, use the “**Servo version up software (VFK1503)**”

### 9-2-1. Items required for flash memory writing

Personal computer compatible with Windows 95/98

RS-232C cable (9-pin cross-cable)

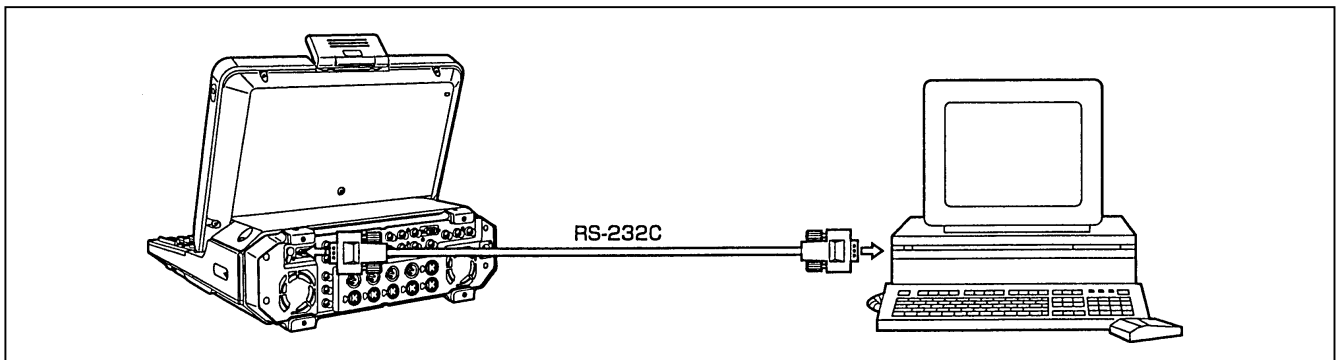
Flash memory version up software ..... **VFK1248E**  
(For KEYBOARD and AV version upgrade)

**NOTE:** The old version software (VFK1248A) can not be used.

Servo version up software ..... **VFK1503**  
(For SERVO version upgrade)

### 9-2-2. Connection of the RS232C Cable

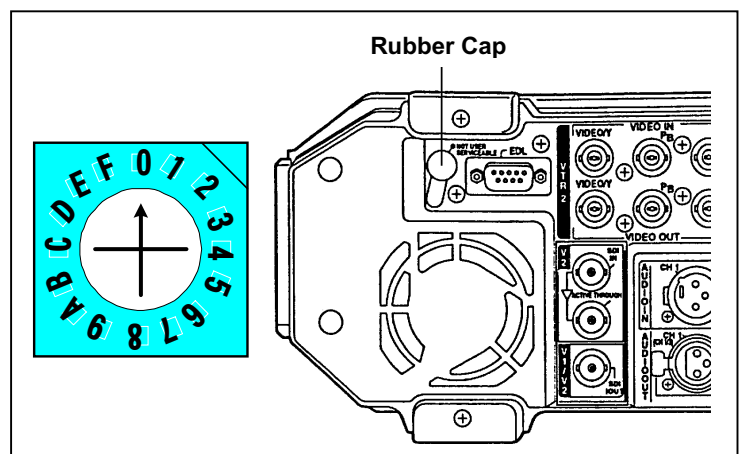
Connect the RS-232C Cross Cable between COM port of Personal Computer and EDL terminal on Rear Panel of AJ-LT95.



### 9-2-3. Set Up Procedure of ROTARY SW

For the FLASH MEMORY version up with Version Up Software, setting of ROTARY SW is required. The ROTARY SW is located beside EDL terminal on the REAR PANEL, which is hidden under the Rubber Cap as indicated following figure. Remove the Rubber Cap and set the ROTARY SW by following explanation

- When select the 0: Normal Operation
- When select the 1: Upgrade the KEY BOARD Microprocessor
- When select the 2: Upgrade the SERVO Microprocessor of VTR1
- When select the 3: Upgrade the SERVO Microprocessor of VTR2
- When select the 4: Upgrade the AV/SYS Microprocessor of VTR1
- When select the 5: Upgrade the AV/SYS Microprocessor of VTR2



**NOTE:** Please set the ROTARY SW before turn on power of AJ-LT95.



## 9-3. Version Upgrade Procedure of KEYBOARD and AV Microprocessor

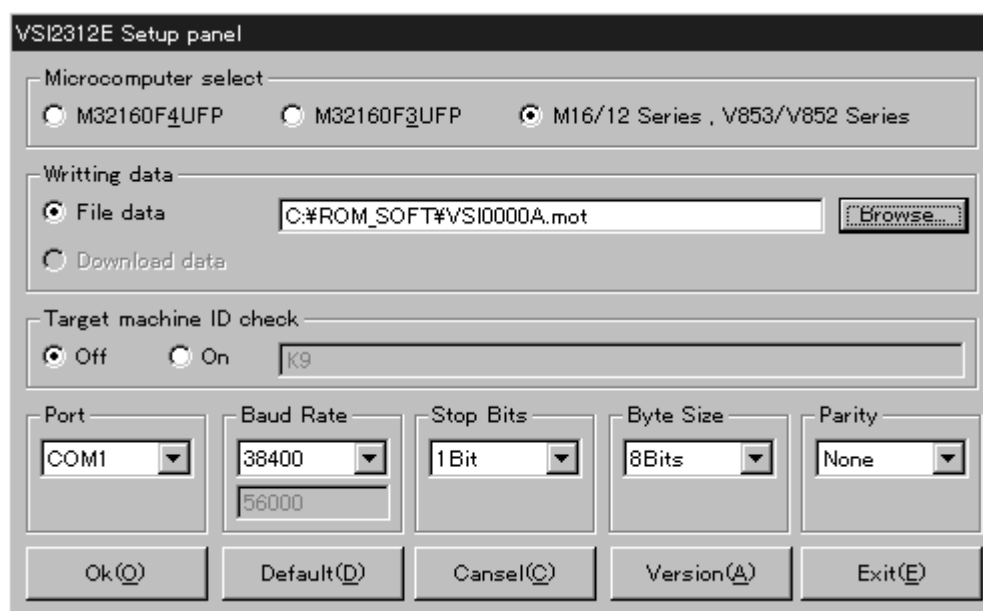
### 9-3-1. Installation of the flash memory version up software

Copy the following file to any directory on a personal computer compatible with Windows 95/98.  
(After execution of the software, an ".INI" file will be created in the same directory as the program file, but this may be left or may be deleted as desired.)

Program File                      **VSI2312E.EXE**

### 9-3-2. Version Upgrade Procedure of KEYBOARD Microprocessor

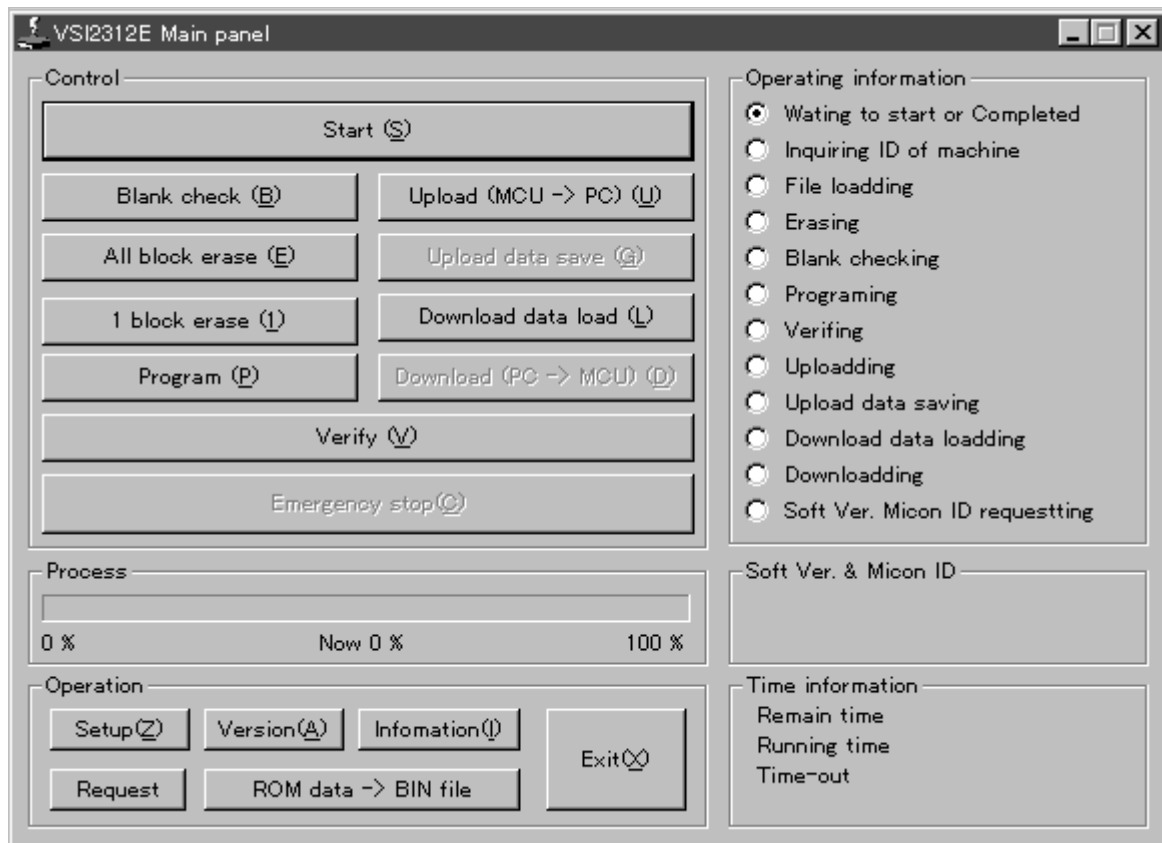
1. Boot up the personal computer in the condition that "9-2-2. Connection of the RS232C cable" and "9-2-3. Set Up Procedure of ROTARY SW" is completed.
2. Turn on the power of AJ-LT95. After turn on the power, the character "rst" is displayed on Event Number Display Lamp and AJ-LT95 goes to Auto Off mode, then an Alarm beeps 4 times.
3. Boot up the flash memory version up software.  
(Double-click the program file "VSI2312E.EXE", which had been copied to any directory, or create a shortcut to "VSI2312E.EXE" and double-click the shortcut.)
4. When this program is started, the "Setup Panel" will open as shown below.



5. Perform the following settings on the "Setup Panel".
  - Microcomputer select..... **V853/V852 Sereis**
  - Writing data ..... **File data**  
Enter the new software (XXXX.mot) for the version upgrade with the full path. You can also use the "Browse..." button on the "Setup Panel" to select the file name and the location of the new software.
  - Port ..... Set the port which the RS-232C cable of the personal computer is connected.
  - Baud Rate..... **38400**
  - Stop Bits ..... **1Bit**
  - Byte Size..... **8Bits**
  - Parity ..... **None**

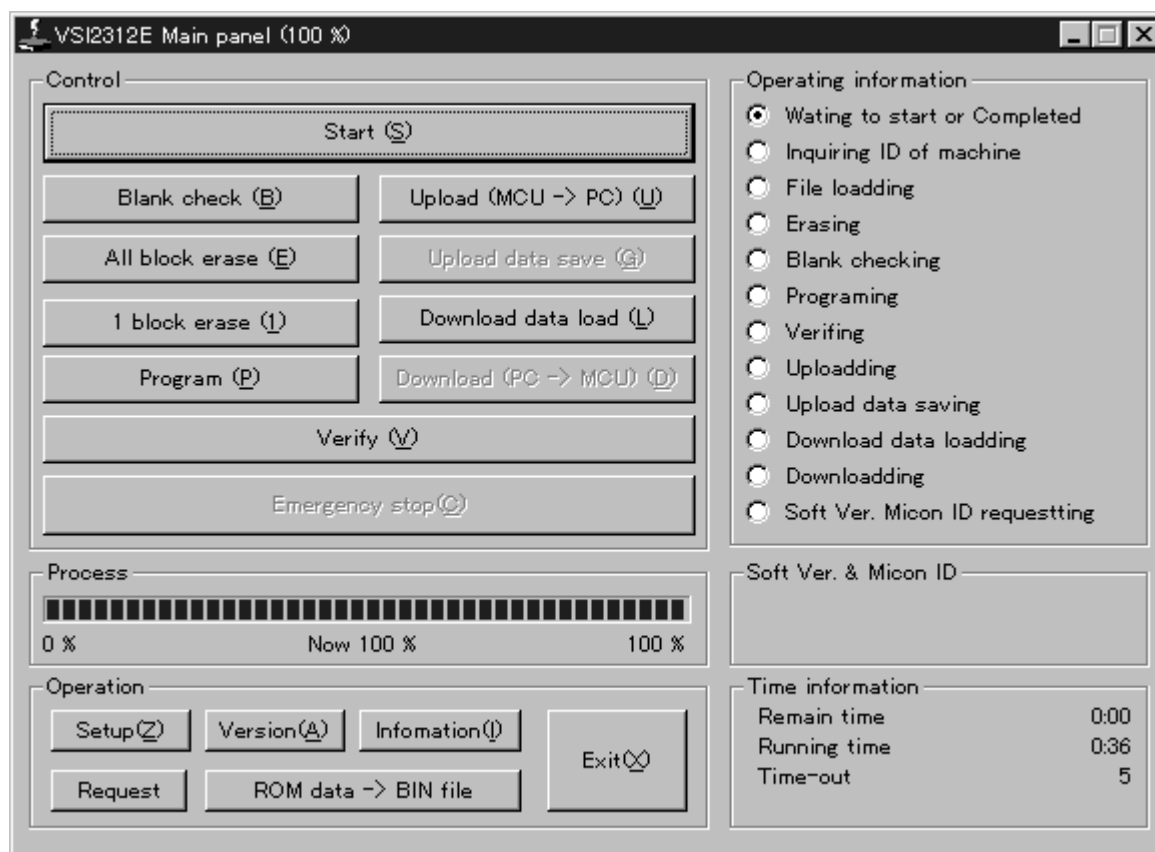


6. When the settings on the “**Setup Panel**” is completed, click “**Ok(O)**”. The “**Main Panel**” will be opened as shown below.



7. Click “**Start (S)**” on the “**Main Panel**”. (If you want to quit here, click “**Exit**”. If you want to return again to the “**Setup Panel**”, click “**Setup(Z)**”.)
8. After erasing of the flash memory, the new software will be written to the flash memory. During the processing, the progress status can be confirmed by means of the “**Process**” indicator. If the indicator does not go advance for some reason, click “**Emergency stop(C)**” to stop the work, connect again, and confirm the settings.
9. When erasing and writing of the flash memory is completed, the “**Process**” indicator reaches 100%, and a black dot appears for “**Waiting to start or Complete**” of “**Operating information**”. (See Next page)





10. When the above status is gotten, click "**Exit(X)**" to end the program.
11. When the version upgrade is completed, turn off the power of AJ-LT95 and set the Rotary SW to "0" position (normal mode)
12. Turn on the power of AJ-LT95 and open the DIAG menu to confirm that the version is upgraded.

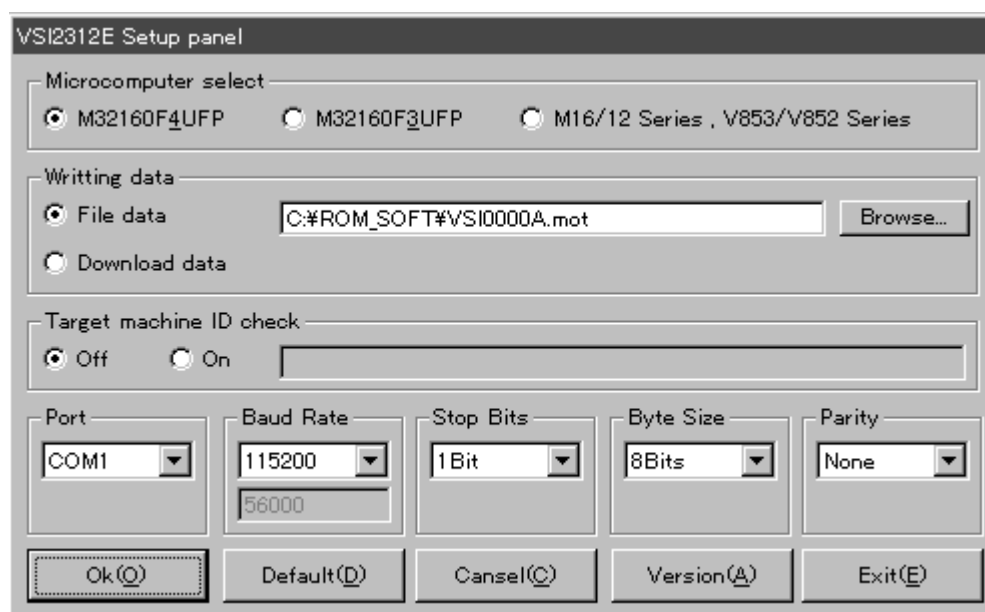
#### < Software Version confirmation procedure >

- (1). Press the DIAG (SHIFT + 9) buttons. (This cannot be done by remote control)  
The hour meter display appears on the VTR 1 and VTR 2 monitor screens.
- (2). Press the SHIFT + FF button so that the display changes from hour meter to software version.



### 9-3-3. Version Upgrade Procedure of AV Microprocessor

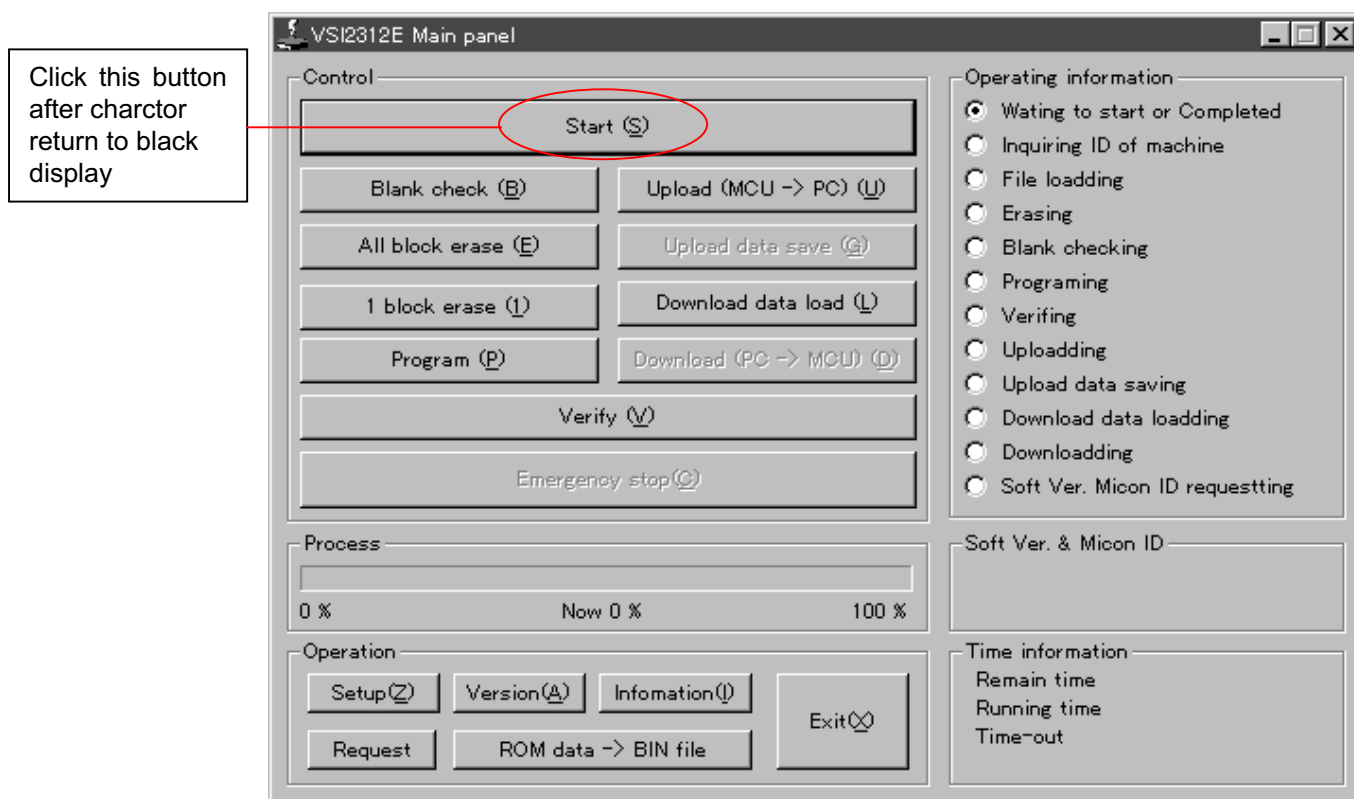
1. Boot up the personal computer in the condition that “9-2-2. Connection of the RS232C cable” and “9-2-3. Set Up Procedure of ROTARY SW” is completed.
2. Turn on the power of AJ-LT95. After turn on the power, the character “FLASH4” (in case of upgrade to VTR2 side, “FLASH5”) is displayed on Counter Display of VTR1 side and AJ-LT95 goes to Auto Off mode, then an Alarm beeps 4 times.
3. Boot up the flash memory version up software.  
(Double-click the program file “**VSI2312E.EXE**”, which had been copied to any directory, or create a shortcut to “**VSI2312E.EXE**” and double-click the shortcut.)
4. When this program is started, the “**Setup Panel**” will open as shown below.



5. Perform the following settings on the “**Setup Panel**”.
  - ☐ Microcomputer select..... **M32160F4UFP**
  - ☐ Writing data ..... **File data**  
Enter the new software (XXXX.mot) for the version upgrade with the full path. You can also use the “Browse...” button on the “Setup Panel” to select the file name and the location of the new software.
  - ☐ Port ..... Set the port which the RS-232C cable of the personal computer is connected.
  - ☐ Baud Rate..... **115200**
  - ☐ Stop Bits ..... **1Bit**
  - ☐ Byte Size..... **8Bits**
  - ☐ Parity ..... **None**



6. "When the settings on the "Setup Panel" is completed, click "Ok(O)". The "Main Panel" will be Setup Panel" opened as shown below.



7. Wait for loading the AVSYS soft program completely. When the program load is finished completely, the display "Start (S)" on "MAIN PANEL" return to black character.
8. Click "Start (S)" on the "Main Panel". (If you want to quit here, click "Exit". If you want to return again to the "Setup Panel", click "Setup(Z)".)
9. After erasing of the flash memory, the new software will be written to the flash memory. During the processing, the progress status can be confirmed by means of the "Process" indicator. If the indicator doesn't go advance for some reason, click "Emergency stop(C)" to stop the work, connect again, and confirm the settings.
10. When erasing and writing of the flash memory is completed, the "Process" indicator reaches 100%, and a black dot appears for "Waiting to start or Complete" of "Operating information".
11. When the above status is gotten, click "Exit(X)" to end the program.
12. When the version upgrade is completed, turn off the power of AJ-LT95 and set the Rotary SW to "0" position (normal mode)
13. Turn on the power of AJ-LT95 and open the DIAG menu to confirm that the version is upgraded.

#### < Software Version confirmation procedure >

- (1). Press the DIAG (SHIFT + 9) buttons. (This cannot be done by remote control)  
The hour meter display appears on the VTR 1 and VTR 2 monitor screens.
- (2). Press the SHIFT + FF button so that the display changes from hour meter to software version.



## 9-4. Version Upgrade Procedure of SERVO Microprocessor

The SERVO microcomputer of the **MAIN CONTROL** circuit board has a built-in flash memory. For the software version up, use the “**Servo version up software (VFK1503)**” according to the following procedure.

1. Prepare a personal computer (MS-DOS, Windows 95 or 98).
2. Copy the servo version up software (VFK1503) and the new servo microcomputer software into the same directory of the personal computer. (The following four types of software.)

**Version up software (VFK1503)**  
**Servo microcomputer software**

“fw103u.exe”  
“vsiXXXX.obf”  
“vsiXXXX.bat”  
“vsiXXXX.ex”

3. Confirm that the condition where “**9-2-2. Connection of the RS232C cable**” and “**9-2-3. Set Up Procedure of ROTARY SW**” is completed.
4. Turn on the power of AJ-LT95. After turn on the power, the character “FLASH2” (in case of upgrade to VTR2 side, “FLASH3”) is displayed on Counter Display of VTR1 side and AJ-LT95 goes to Auto Off mode, then an Alarm beeps 4 times.
5. Execute the “**VSIXXX.bat**” copied to the personal computer. (During execution, the file “servo.exe” will be created, but this may be left in the directory without any problems.)
6. When the following screen is displayed, enter “Y” and press “**ENTER**”. (During program writing, the progress is shown on the display of the personal computer.)

```
/=== MN103004 FLASH ROM VERSION UP SOFTWARE ===/  
      1 file(s) copied  
/=== Initializing ===/  
Could not record flash memory exchange record.  
Do you continue ? Y/N > Y_
```



7. When writing is completed, the following screen appears. Press CTRL and C button to escape from DOS prompt.

```
fw103> #--- âtâêâbâUââé|âæéâââé|éâââéâéâââ ---
fw103> load servo.ex
Ex format file analysis ...
start loading

Zero writing before erase .
Erase block .
0x00002000 - 0x00003fff writing
0x00004000 - 0x00005fff writing
0x00006000 - 0x00007fff writing
0x00008000 - 0x00009fff writing
0x0000a000 - 0x0000bfff writing
0x0000c000 - 0x0000dfff writing
0x0000e000 - 0x0000ffff writing
0x00010000 - 0x00011fff writing
0x00012000 - 0x00013fff writing
0x00014000 - 0x00015fff writing
0x00016000 - 0x00017fff writing
0x00018000 - 0x00019fff writing
0x0001a000 - 0x0001bfff writing
0x0001c000 - 0x0001dfff writing

Load finished
fw103> q
```

8. When the version upgrade is completed, turn off the power of AJ-LT95 and set the Rotary SW to "0" position (normal mode)
9. Turn on the power of AJ-LT95 and open the DIAG menu to confirm that the version has been upgraded.

### < Software Version confirmation procedure >

- (1). Press the DIAG (SHIFT + 9) buttons. (This cannot be done by remote control)  
The hour meter display appears on the VTR 1 and VTR 2 monitor screens.
- (2). Press the SHIFT + FF button so that the display changes from hour meter to software version.



## 9-5. Version Upgrade Procedure of PLD(Xilinx)

The Main Control P.C.Board have PLD(Programable Logic Device, made by Xilinx). For the software version up, connect the “**CPLD WRITER(VFK1590)**” to the tool connection connector and use the “**Version Upgrade Software**” according to the following procedure.

### 9-5-1. Preparation

1. Following items are required for version upgrade.

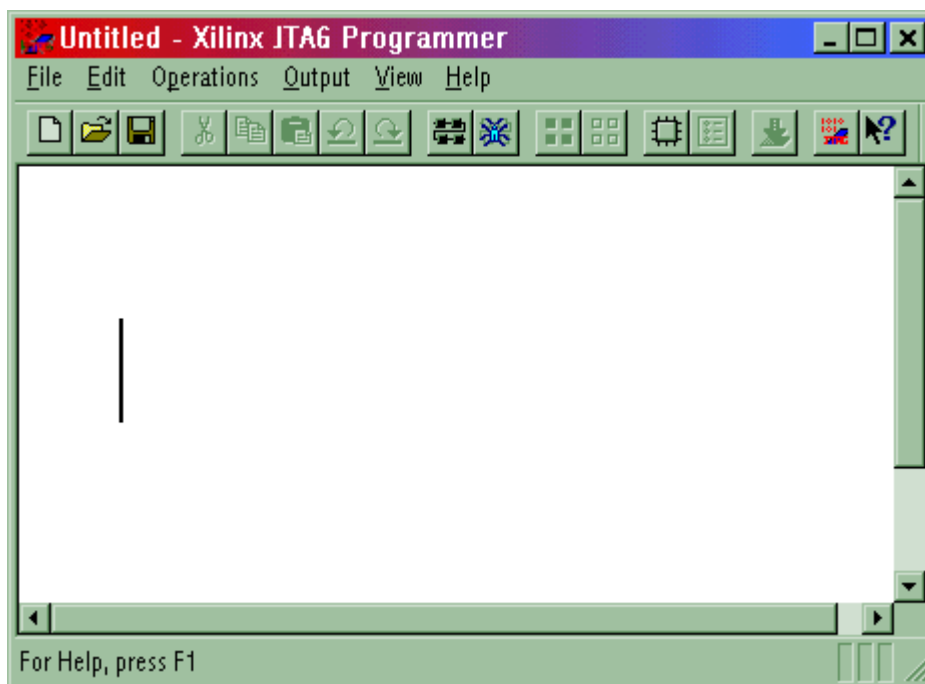
ITEM	REMARK
CPLD WRITER	VFK1590 (New)
D-sub 25pin-25pin Cable	Straight (Male—Female), Length : Within 1 meter
Version Upgrade Software	JTAG Programmer Software (Please download from <a href="http://www.xilinx.com">www.xilinx.com</a> )
Version Upgrade Data	CDF File (“VSIXXX” include it)
Personal Computer	WINDOWS 95® or 98®

### 9-5-2. Connection

1. Connect the D-sub cable between CN401 connector of the CPLD WRITER and Personal Computer(Printer port).
2. Connect the CPLD WRITER Cable between P21601 of Main Control P.C.Board and P4 connector of CPLD WRITER.
3. Boot up the Version Upgrade Software.

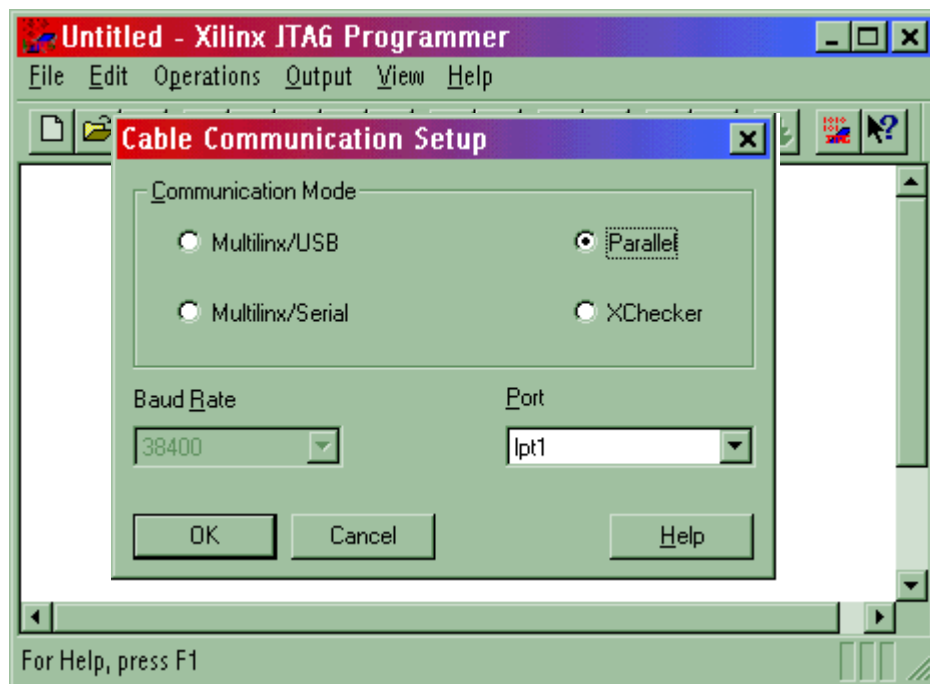
### 9-5-3. Boot up the Version Up Software and Version Up Procedure

1. After downloading the program, unpack the software. Click the start button of windows program “Xilinx CPLD Webpack”, then Device Program is boot up and following screen is appeared.

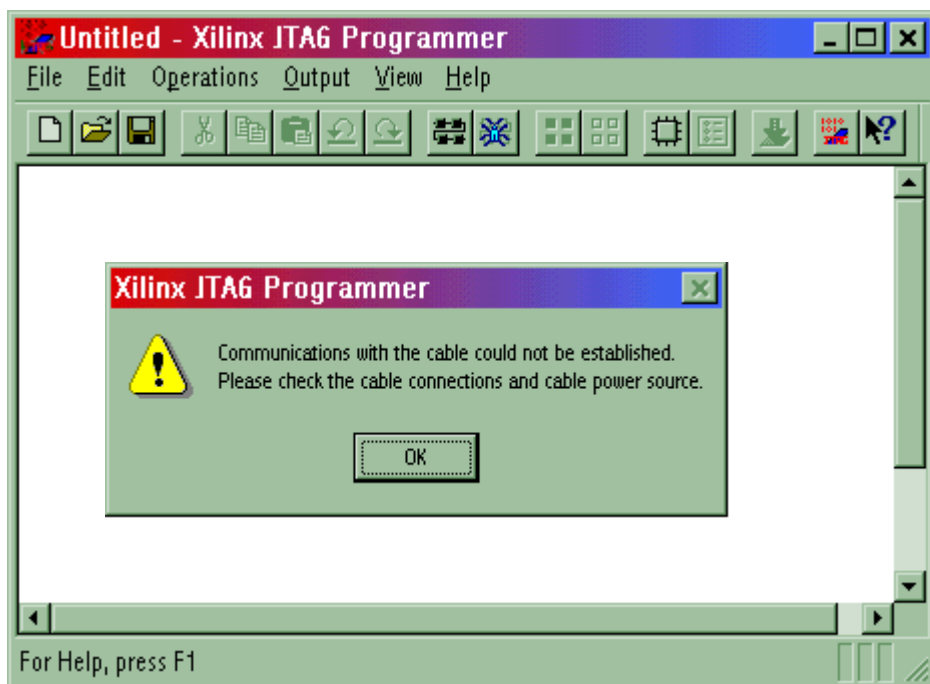




2. Click “OUTPUT” on the menu and select “Parallel” for Cable Communication Setup (default port is lpt1).



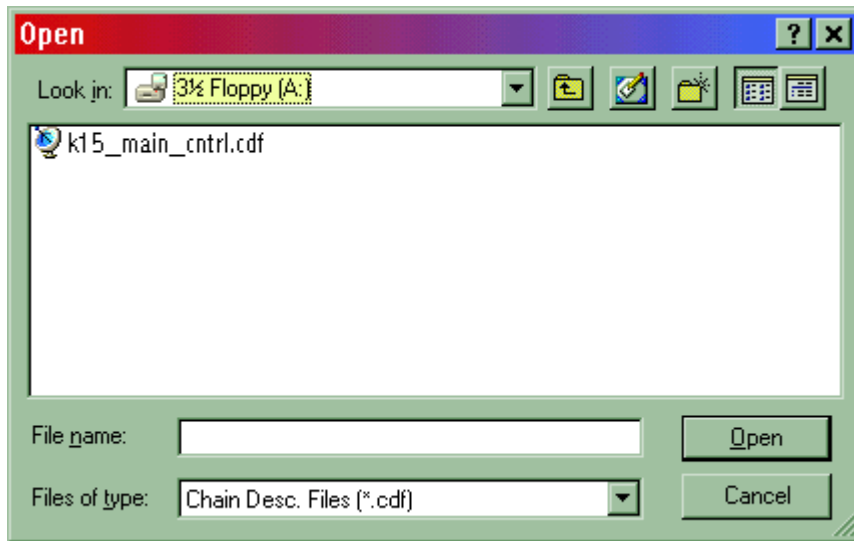
3. If connection is correct, message indicated below appears.



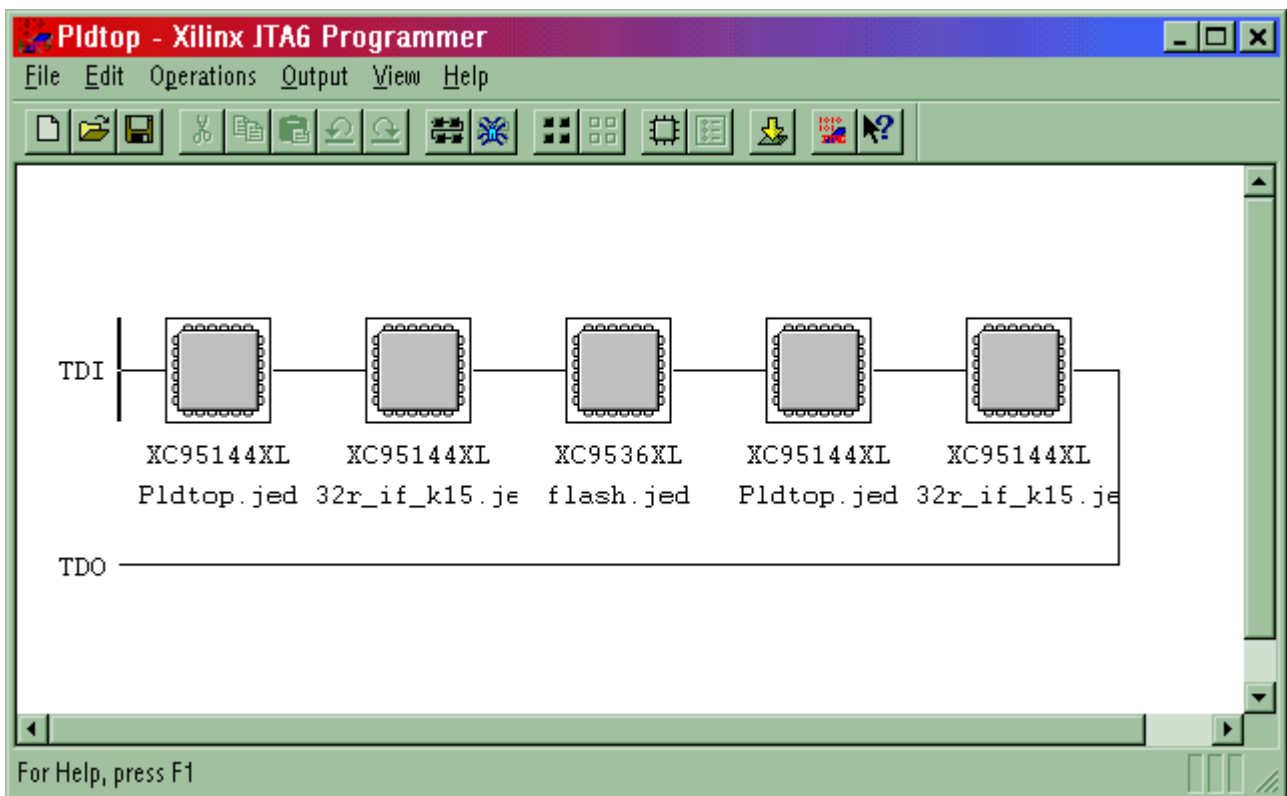
4. Click OK button.



5. Insert the update floppy disk into A drive.
6. Open the target file. This file called Chain Disc file, because one file can write several CPLDs like a chain.

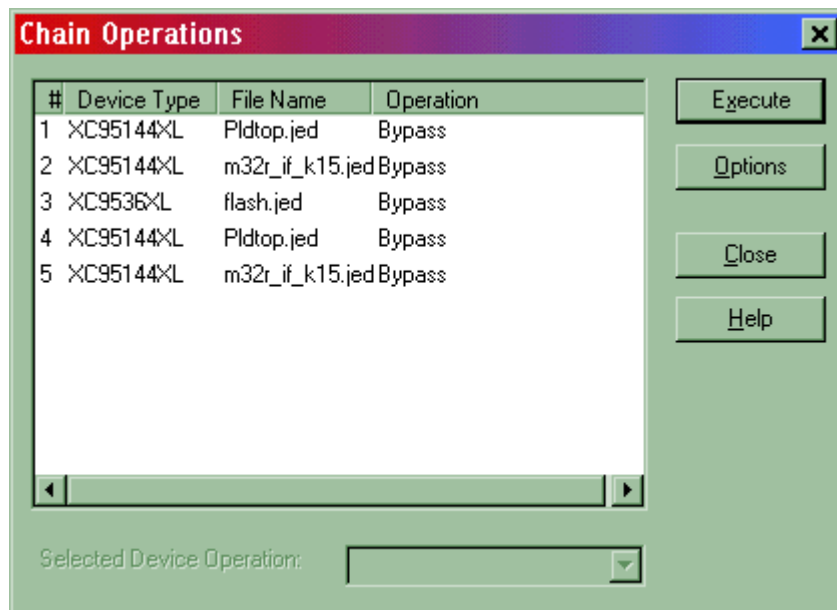


7. Click open button, then following screen appears.

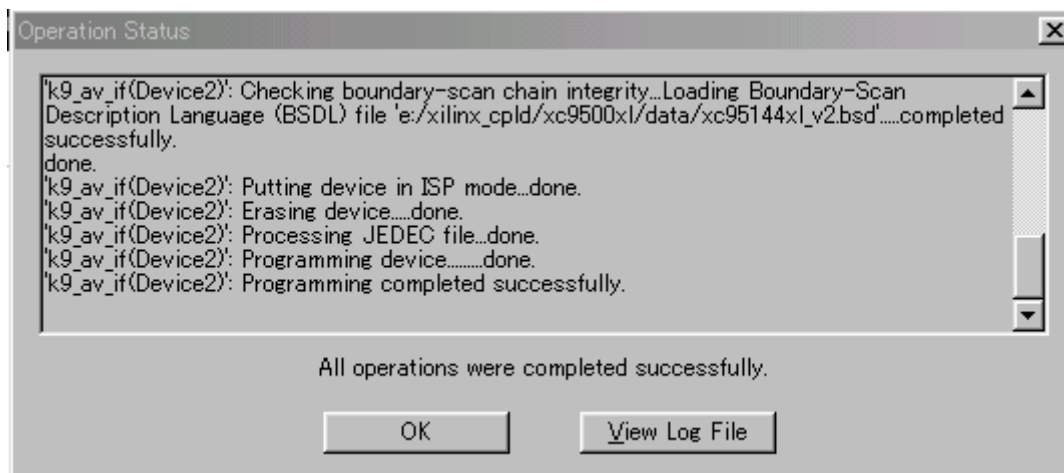


8. Then click “Operations” on the menu and select “Chain Operation”. Then following screen appears.





- Click "Excute" button and after completion of data writing the following message is displayed. "All Operations were completed successfully".





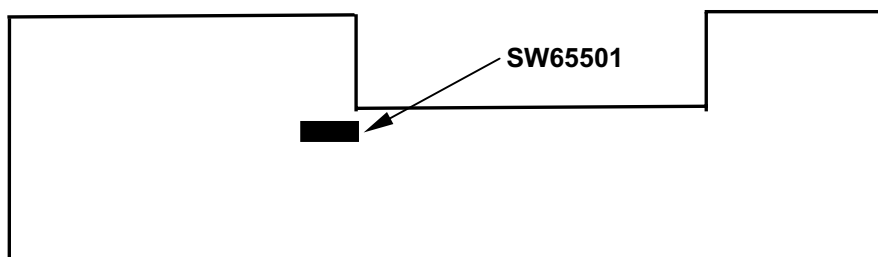
## 10. Internal Switch Setting Method

The switch setting on each circuit board are shown below.

The switches "Factory use only" must be set to the "factory setting".

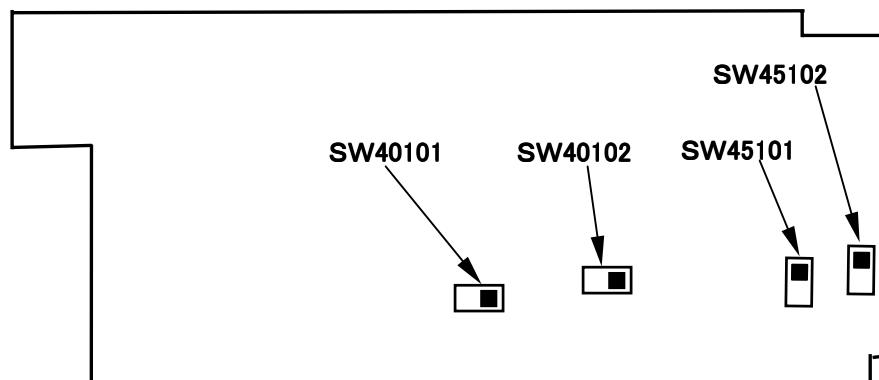
BOARD	Ref. No.	SW	FACTORY SETTING	FEATURE
MAIN CONTROL	SW65501	1	ON(FIXED)	Factory use only (For NTSC/PAL select)
		2	OFF(FIXED)	Factory use only (For NTSC/PAL select)
		3	OFF(FIXED)	Not Used
		4	OFF(FIXED)	Not Used
		5	OFF(FIXED)	Factory use only (For DEBUG)
		6	OFF(FIXED)	Factory use only (For DEBUG)
		7	OFF(FIXED)	Factory use only (AV RESET)
		8	ON(FIXED)	Factory use only (PLD ON)
DISPLAY CONTROL	SW68001	1	OFF(FIXED)	Factory use only (For DEBUG)
		2	OFF(FIXED)	Factory use only (For DEBUG)
		3	OFF(FIXED)	Factory use only (For DEBUG)
		4	OFF(FIXED)	Factory use only (For DEBUG)
		5	OFF(FIXED)	Factory use only (For DEBUG)
		6	OFF(FIXED)	Factory use only (For DEBUG)
AV IO	SW42201	1	ON(FIXED)	Factory use only
		2	ON(FIXED)	Factory use only
AUDIO VIDEO	SW40101	–	HIGH(10K $\Omega$ )	VTR1 CH1 Audio input impedance setting(600 $\Omega$ / HIGH)
	SW40102	–	HIGH(10K $\Omega$ )	VTR1 CH2 Audio input impedance setting(600 $\Omega$ / HIGH)
	SW45101	–	HIGH(10K $\Omega$ )	VTR2 CH1 Audio input impedance setting(600 $\Omega$ / HIGH)
	SW45102	–	HIGH(10K $\Omega$ )	VTR2 CH2 Audio input impedance setting(600 $\Omega$ / HIGH)

### MAIN CONTROL P.C. Board



(Component side)

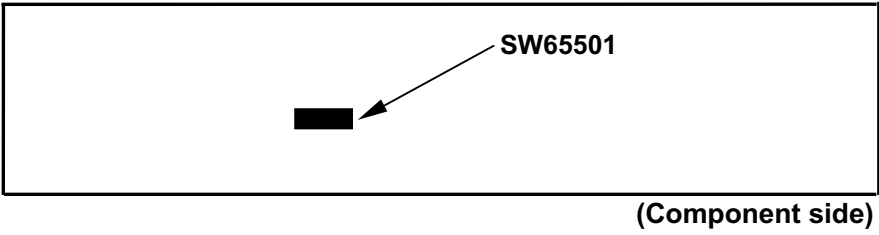
### AUDIO VIDEO P.C. Board



(Component side)



**DISPLAY CONTROL P.Cboard**



**AV IO P.C.Board**





# 11. Error Rate Display and Confirmation Procedure

The error rate can be confirmed at normal and service mode.

## (1). Display procedure without open the service menu. (During normal operation)

1. While pressing [SHIFT] button, press [EVENT],[IN] and [OUT] button simultaneously so that the Audio Level Meter changes into the VIDEO Error Rate Display.(Effective only during pressing the buttons)
2. While pressing [SHIFT] button, press [IN],[OUT] and [DUR] button simultaneously so that the Audio Level Meter changes into the AUDIO Error Rate Display.(Effective only during pressing the buttons)
3. CH1 and CH2 lamp lights in only Video Error rate display mode as indicated below.
4. CH3 and CH4 lamp lights in only Audio Error rate display mode as indicated below.
5. L1 head output signal is apply to CH1 level meter display and L2, R1 and R2 head output signals apply to CH2,CH3 and CH4 level meter display as indicated below.

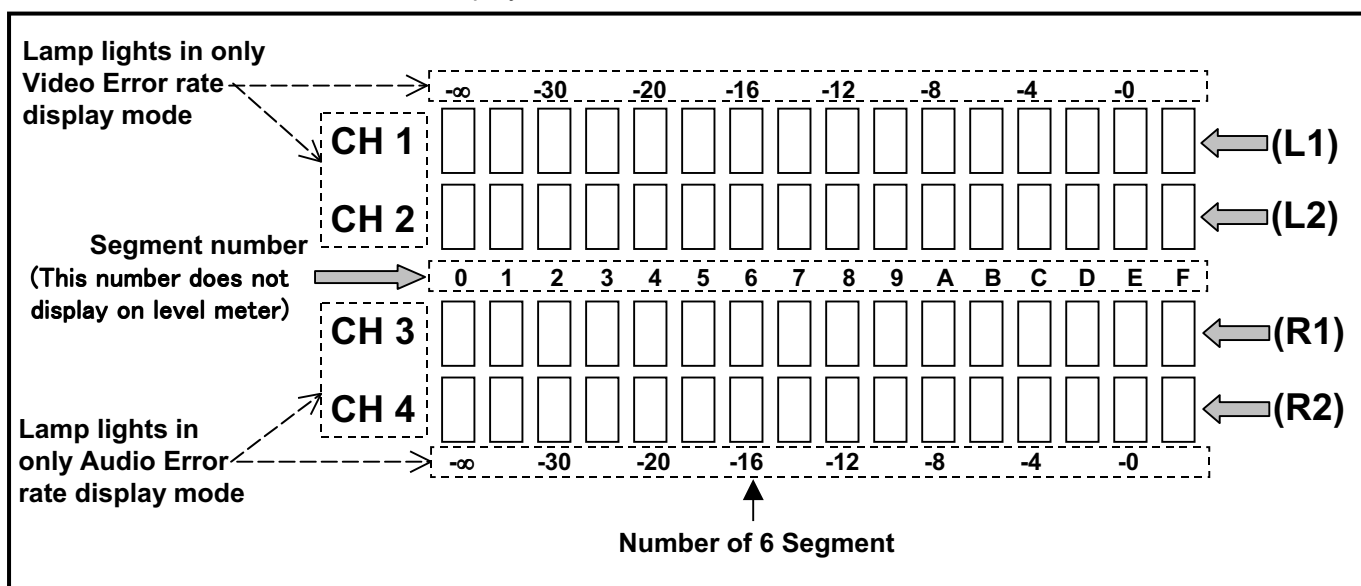


Figure 1

## (2). Display Procedure with opening service menu (On service mode)

1. Press [SHIFT] and [7] buttons simultaneously so that the set up menu is opened.
2. Press [SHIFT],[PLAY],[STILL],[REW] and [FF] buttons simultaneously so that the service menu is opened.
3. Select any item of ADJUST menu by JOG Dial and press [MARK IN] button so that the Audio Level Meter changes into the VIDEO Error Rate Display.

**NOTE :** In case of confirmation of the Audio error rate, while pressing [SHIFT] button, press [IN],[OUT] and [DUR] button simultaneously as same as normal condition so that the Video Error rate display changes into the AUDIO Error Rate Display.(Effective only during pressing the buttons)



### (3). Standard of Error rate

Please refer to standard of error rate in the VTR mode on normal or Service mode condition indicated as below.

VTR mode	Standard of Error Rate (Video Error Rate)
Alignment Tape Playback ( 50M PB Head )	Under the " 6 " position on Level Meter  <b>NOTE 1:</b> " 6 " is indicated as segment number (refer to figure 1) <b>NOTE 2:</b> The error rate on RP Head playback can not be confirmed on normal mode.
Alignment Tape Playback ( 50M RP Head )	
Alignment Tape Playback ( 25M RP Head )	
Alignment Tape Playback ( 25M PB Head )	
Self Recorded Playback (50M)	
Self Recorded Playback (25M)	

### (4). Comparison of Error Rate and Channel Condition lamp

The channel condition lamp on Counter Display light according to the condition of error rate. Refer the following figure 2 for the comparison of error rate and channel condition lamp

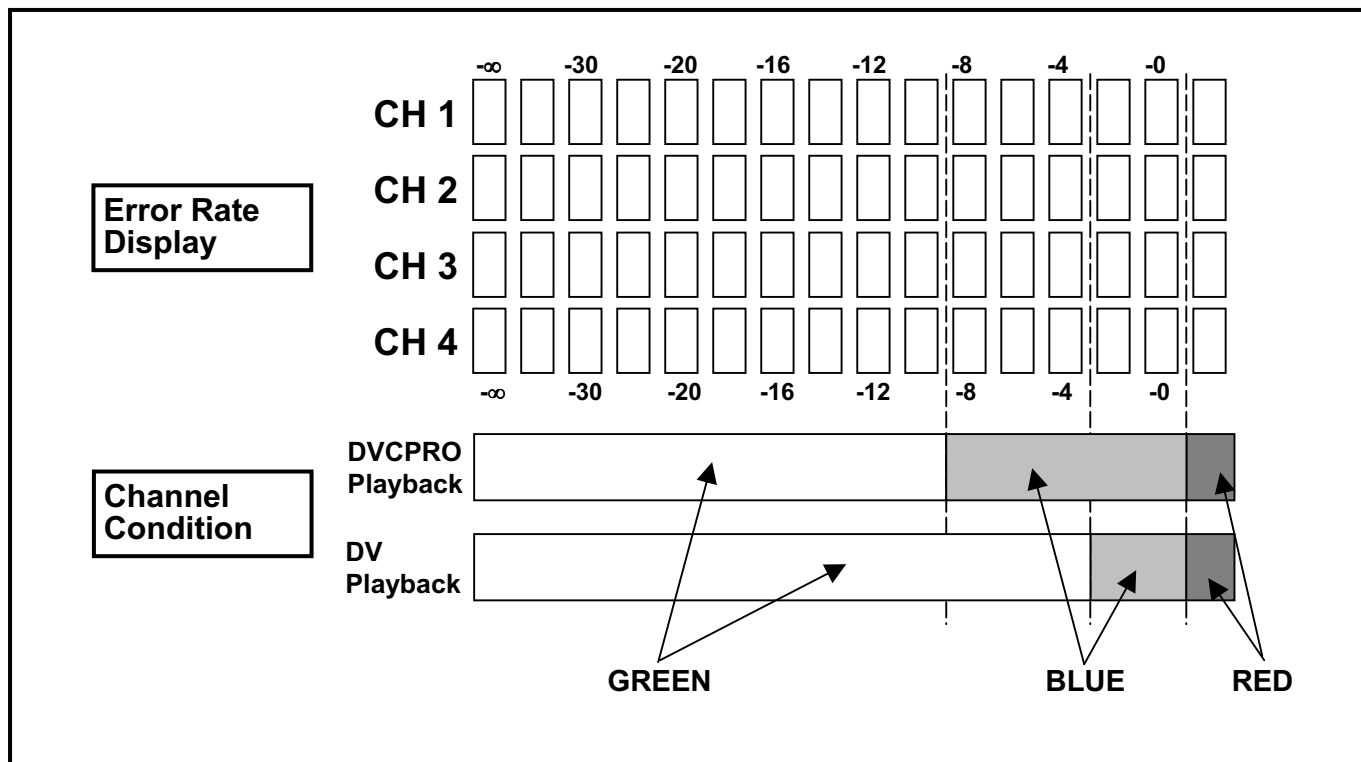


Figure 2



## 12. Service Menu Information

### 12-1. Service Menu Operation Method

#### < Condition >

1. Set the Control Switch on the Key Panel to "LOCAL" side.
2. Set the search dial to Jog mode.

#### < To get into Service Menu mode >

1. Press the "SHIFT" and "7" button simultaneously so that the SET UP menu is displayed on the LCD display and then press the "SHIFT" + "PLAY" + "STILL" + "REW" + "FF" button simultaneously so that the Main menu of Service menu is displayed.
2. Move the cursor "\*" by search Dial and select the item on the Main menu.
3. Press the "MARK IN" button, then open the Adjustment Menu selected on the Main menu.

**Note:** The contents of each Adjustment menu are described on behind page.

SERVICE-MENU	
VTR1—7.06 No. A00	
* A00	: SERVO ADJUST
B00	: RF 50M PB ADJUST
C00	: RF 50M RP ADJUST
D00	: RF 50M REC ADJUST
E00	: RF 25M PB ADJUST
F00	: RF 25M RP ADJUST
G00	: RF 25M REC ADJUST
H00	: VIDEO ADJUST
I00	: SYSTEM ADJUST

(MAIN MENU)

#### <To get back to normal mode from Service Menu mode >

By Pressing the "SHIFT" and "7" button simultaneously under the Main menu of both VTR1 and 2 displayed, can get back to normal mode.

#### <Button's function to be used on the Service Menu >

- [ VTR1 ]      ① Select the operation of VTR1 side.(Turn on LED of VTR1 button)
- [ VTR2 ]      ① Select the operation of VTR2 side.(Turn on LED of VTR2 button)  
**NOTE:** Can not select VTR1 and VTR2 simultaneously.
- [ MARK IN ]      ① Move to each Adjustment Menu (A00 to I00) from Main Menu.  
Execute the setting of item TAP and VCO on RF ADJUST menu
- [ MARK OUT ]      ① Move to Main Menu from each ADJUST Menu.
- [ DIAL ] (JOG mode)      ① Move the cursor "\*" to select the each item.
- [ SHIFT ] + [ FF ]      ① Move the cursor "\*" ahead of 9 items.
- [ SHIFT ] + [ REW ]      ① Move the cursor "\*" back of 9 items.
- [ VTR1/2 ] + [ DIAL ]      ① Change the adjustment value when item is selected.  
(Increase adjustment value by turning Search Dial to clockwise and decrease adjustment value by turning Search Dial to counter-clockwise.)
- [ VTR1/2 ] + [ + ]/[ - ]      ① Change the adjustment value when item is selected.  
(Increase adjustment value by pressing "VTR1/2" + "+" button and decrease adjustment value by pressing "VTR1/2" + "-" button.)  
**NOTE:** By items, the condition is kept, once "VTR1/2" button is pressed. To release from this condition, press "C" button.



## 12-2. Service Menu Contents

### A00: SERVO

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
A01	T OFFSET	-128~ <u>80</u> ~127	<b>Torque Command Offset value Adjustment of T REEL</b> This shall be done in EJECT condition. <Operation> 1. Press the [ VTR1/2 ] button 2. Adjust the value by press the [ VTR1/2 ] + [ + ] or [ - ] button. 3. Release the [ VTR1/2 ] button after adjustment is done.	
A02	S OFFSET	-128~ <u>80</u> ~127	<b>Torque Command Offset value Adjustment of S REEL</b> This shall be done in EJECT condition. <Operation> 1. Press the [ VTR1/2 ] button 2. Adjust the value by press the [ VTR1/2 ] + [ + ] or [ - ] button. 3. Release the [ VTR1/2 ] button after adjustment is done.	
A03	T TORQUE	-128~ <u>0</u> ~127	<b>Compensation of the T-reel driver offset value</b> This shall be done in EJECT condition. <Operation>: 1. The following operations will start when the [ VTR1/2 ] button is pressed. 1) T-brake OFF 2) Cylinder rotation 3) Loading is completed 2. Set the value with the [ + ] or [ - ] button. (Not require pressing [ VTR1/2 ] button) 3. Press the [ C ] button after setting is completed. 1) Unloading is completed 2) Cylinder stop 3) T-brake ON	
A04	S TORQUE	-128~ <u>0</u> ~127	<b>Compensation of the S-reel driver offset value</b> This shall be done in EJECT condition. <Operation>: 1. The following operations will start when the [ VTR1/2 ] button is pressed. 1) S-brake OFF 2) Cylinder rotation 3) Loading is completed 2. Set the value with the [ + ] or [ - ] button. (Not require pressing [ VTR1/2 ] button) 3. Press the [ C ] button after setting is completed. 1) Unloading is completed. 2) Cylinder stop 3) S-brake ON	
A05	TENSION OFST	-128~ <u>5</u> ~127	<b>Tension offset value adjustment.</b> This shall be done in EJECT condition. <Operation>: 1. Press the [ VTR1/2 ] button. 2. Set the value with the [ + ] or [ - ] button. (Not require pressing [ VTR1/2 ] button) 3. Press the [ ENTER ] button. Loading is done and reel torque is off. 4. Press the [ C ] button after setting is completed.	
A06	PG SFTR 50 R	0~ <u>3288</u> ~8191	<b>PG SHIFTER automatic adjustment for 50M</b> <Operation>: 1. Insert the alignment tape. 2. While pressing [VTR1/2] button, automatic adjustment is done. The value indication will change to "0000" and the tape is played automatically, then adjustment start. 3. When the set value is displayed, adjustment is completed. Then release the [ VTR1/2 ] button.	
	PG SFTR 50 F	0~ <u>3288</u> ~8191		



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
A07	PG SFTR 25 R	0~ <u>1649</u> ~4095	<b>PG SHIFTER automatic adjustment for 25M mode</b> <Operation>: 1. Insert the alignment tape. 2. While pressing [VTR1/2] button, automatic adjustment is done. The value indication will change to "0000" and the tape is played automatically, then adjustment start. 3. When the set value is displayed, adjustment is completed. Then release the [ VTR1/2 ] button.	
	PG SFTR 25 F	0~ <u>1649</u> ~4095		
A08	X VALUE 50	-128~ <u>0</u> ~127	<b>Electrical fine adjustment of the X-value for 50M mode.</b> <Operation>: 1. Insert the alignment tape. 2. While pressing [VTR1/2] button, automatic adjustment is done. The set value indication will go out and the tape is played automatically, then adjustment start. 3. When the set value is displayed, adjustment is completed. Then release the [ VTR1/2 ] button.	N/A
A09	X VALUE 25	-128~ <u>0</u> ~127	<b>Electrical fine adjustment of the X-value for 25M mode.</b> <Operation>: 1. Insert the alignment tape. 2. While pressing [VTR1/2] button, automatic adjustment is done. The set value indication will go out and the tape is played automatically, adjustment start. 3. When the set value is displayed, adjustment is completed. Then release the [ VTR1/2 ] button.	N/A
A10	RP GAIN 50M	-128~ <u>0</u> ~127	<b>LISTA SENSITIVITY adj. (RP HEAD) for DVCPRO 50M</b> <Operation>: 1. Insert the alignment tape. 2. Press the [ VTR1/2 ] button. The tape is played automatically. 3. Set the value with the [ + ] or [ - ] button. 4. Press the [ C ] button when setting is completed.	
A11	RP LIN 50M	—	<b>LISTA LINEARITY adj. (RP HEAD) for DVCPRO 50M</b> <Operation>: 1. Press the [ VTR1/2 ] button to move to the measurement mode. 2. Press the [ C ] button when setting is completed.	
A12	PB GAIN 50M	-128~ <u>0</u> ~127	<b>LISTA SENSITIVITY adj. (PB HEAD) for DVCPRO 50M</b> <Operation>: 1. Insert the alignment tape. 2. Press the [ VTR1/2 ] button. The tape is played automatically. 3. Set the value with the [ + ] or [ - ] button. 4. Press the [ C ] button when setting is completed.	
A13	PB LIN 50M	—	<b>LISTA LINEARITY adj. (PB HEAD) for DVCPRO 50M</b> <Operation>: 1. Press the [ VTR1/2 ] button to move to the measurement mode. 2. Press the [ C ] button when setting is completed.	



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
A14	RP GAIN 25M	-128~ <u>0</u> ~127	<b>LISTA SENSITIVITY adj. (RP HEAD) for DVCPRO 25M</b> <Operation>: 1. Insert the alignment tape. 2. Press the [ VTR1/2 ] button. The tape is played automatically. 3. Set the value with the [ + ] or [ - ] button. 4. Press the [ C ] button when setting is completed.	
A15	RP LIN 25M	—	<b>LISTA LINEARITY Adj. (RP HEAD) for DVCPRO 25M</b> <Operation>: 1. Press the [ VTR1/2 ] button to move to the measurement mode. 2. Press the [ C ] button when setting is completed.	
A16	PG GAIN 25M	-128~ <u>0</u> ~127	<b>LISTA SENSITIVITY adj. (PB HEAD) for DVCPRO 25M</b> <Operation>: 1. Insert the alignment tape. 2. Press the [ VTR1/2 ] button. The tape is played automatically. 3. Set the value with the [ + ] or [ - ] button. 4. Press the [ C ] button when setting is completed.	
A17	PB LIN 25M	—	<b>LISTA LINEARITY adj. (PB HEAD) for DVCPRO 25M</b> <Operation>: 1. Press the [ VTR1/2 ] button to move to the measurement mode. 2. Press the [ C ] button when setting is completed.	
A18	MOTOR CHECK	<b>OFF</b> CAPS. DRUM T REEL S REEL	<b>Check the motor operation</b> <Operation>: After selected the each item, then selected motor start rotation.	N/A
A19	REC DATA SEL	<b>CW</b> CW/2 CW/4	<b>Select the recording data</b>	



## B00: RF 50M PB

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
B01	PB MAG L1	0~ <u>128</u> ~255	Playback Output Gain Correction for PB L1ch head	
B02	PB MAG L2	0~ <u>128</u> ~255	Playback Output Gain Correction for PB L2ch head	
B03	PB PHASE L1	0~ <u>128</u> ~255	Playback Phase Correction for PB L1ch head	
B04	PB PHASE L2	0~ <u>128</u> ~255	Playback Phase Correction for PB L2ch head	
B05	PB MAG R1	0~ <u>128</u> ~255	Playback Output Gain Correction for PB R1ch head	
B06	PB MAG R2	0~ <u>128</u> ~255	Playback Output Gain Correction for PB R2ch head	
B07	PB PHASE R1	0~ <u>128</u> ~255	Playback Phase Correction for PB R1ch head	
B08	PB PHASE R2	0~ <u>128</u> ~255	Playback Phase Correction for PB R2ch head	
B09	PB SMAG L1	0~ <u>128</u> ~255	PB L1ch Playback Output Gain for ATF playback	
B10	PB SMAG L2	0~ <u>128</u> ~255	PB L2ch Playback Output Gain for ATF playback	
B11	PB SMAG R1	0~ <u>128</u> ~255	PB R1ch Playback Output Gain for ATF playback	
B12	PB SMAG R2	0~ <u>128</u> ~255	PB R1ch Playback Output Gain for ATF playback	
B13	VITERBI	OFF <u>ON</u>	The VITERBI mode is set Only effective on SERVICE MENU	
B14	ERROR MODE	<u>FAST</u> SLOW	The ERROR RATE display mode is set Only effective on SERVICE MENU	
B15	25M TAPE PLAY	<u>ATF</u> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF50R	Force Playback with setting servo to the selected format Only effective on SERVICE MENU	
B16	AUTO EQ	OFF <u>ON</u>	PB EQUALIZER AUTO Adj. ON/OFF Only effective on SERVICE MENU	
B17	STB ON	0 <u>1</u>	Setting of EQ IC software	Factory use only
B18	FLTD	0 <u>1</u>	Setting of EQ IC software	Factory use only
B19	FLTLG	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
B20	VCASP	0 <u>1</u>	Setting of EQ IC software	Factory use only
B21	AGSPD	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
B22	AQSPTR	0 <u>1</u>	Setting of EQ IC software	Factory use only
B23	SPTRTH	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
B24	EQSPD	0~ <u>1</u> ~3	Setting of EQ IC software	Factory use only



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
B25	PXIBT	0~ <u>3</u>	Setting of EQ IC software	Factory use only
B26	PLLA	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
B27	PCFIX	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
B28	PLLB	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
B29	AGCO	0~ <u>96</u> ~255	Setting of EQ IC software	Factory use only
B30	VCOA	0 <u>1</u>	Setting of EQ IC software	Factory use only
B31	VCATH	0~ <u>56</u> ~127	Setting of EQ IC software	Factory use only
B32	THEYE	0~ <u>110</u> ~255	Setting of EQ IC software	Factory use only
B33	THULK	0~ <u>94</u> ~255	Setting of EQ IC software	Factory use only
B34	ENVTH	0~ <u>16</u> ~255	Setting of EQ IC software	Factory use only
B35	ATFGL	0~ <u>128</u> ~255	Burst Phase adjustment (PAL)	
B36	ATFGR	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
B37	VCO	—	<b>SAVE or LOAD the VCO Center Frequency</b> <Operation>: 1. Press the [ MARK IN ] button, then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
B38	TAP	—	<b>SAVE or LOAD the TAP Coefficient</b> <Operation>: 1. Press the [ MARK IN ] button, then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
B39	DEFAULT	—	<b>Factory default setting</b> <Operation>: 1. Press the [ MARK IN ] button, then the message "LOAD" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	N/A



## C00: RF 50M RP

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
C01	RP MAG L1	0~ <u>128</u> ~255	Playback Output Gain Correction for RP L1ch head	
C02	RP MAG L2	0~ <u>128</u> ~255	Playback Output Gain Correction for RP L2ch head	
C03	RP PHASE L1	0~ <u>128</u> ~255	Playback Phase Correction for RP L1ch head	
C04	RP PHASE L2	0~ <u>128</u> ~255	Playback Phase Correction for RP L2ch head	
C05	RP MAG R1	0~ <u>128</u> ~255	Playback Output Gain Correction for RP R1ch head	
C06	RP MAG R2	0~ <u>128</u> ~255	Playback Output Gain Correction for RP R2ch head	
C07	RP PHASE R1	0~ <u>128</u> ~255	Playback Phase Correction for RP R1ch head	
C08	RP PHASE R2	0~ <u>128</u> ~255	Playback Phase Correction for RP R2ch head	
C09	RP SMAG L1	0~ <u>128</u> ~255	RP L1ch Playback Output Gain for ATF playback	
C10	RP SMAG L2	0~ <u>128</u> ~255	RP L2ch Playback Output Gain for ATF playback	
C11	RP SMAG R1	0~ <u>128</u> ~255	RP R1ch Playback Output Gain for ATF playback	
C12	RP SMAG R2	0~ <u>128</u> ~255	RP R1ch Playback Output Gain for ATF playback	
C13	VITERBI	OFF <u>ON</u>	The VITERBI mode is set Only effective on SERVICE MENU	
C14	ERROR MODE	<u>FAST</u> SLOW	The ERROR RATE display Mode is set Only effective on SERVICE MENU	
C15	25M TAPE PLAY	<u>ATF</u> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF25R	Force Playback with setting servo to the selected format Only effective on SERVICE MENU	
C16	AUTO EQ	OFF <u>ON</u>	PB EQUALIZER AUTO Adj. ON/OFF Only effective on SERVICE MENU	
C17	STB ON	0 <u>1</u>	Setting of EQ IC software	Factory use only
C18	FLTD	0 <u>1</u>	Setting of EQ IC software	Factory use only
C19	FLTLG	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
C20	VCASP	0 <u>1</u>	Setting of EQ IC software	Factory use only
C21	AGSPD	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
C22	AQSPTR	0 <u>1</u>	Setting of EQ IC software	Factory use only
C23	SPTRTH	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
C24	EQSPD	0~ <u>1</u> ~3	Setting of EQ IC software	Factory use only



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
C25	PXIBT	0~ <u>3</u>	Setting of EQ IC software	Factory use only
C26	PLLA	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
C27	PCFIX	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
C28	PLLB	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
C29	AGCO	0~ <u>96</u> ~255	Setting of EQ IC software	Factory use only
C30	VCOA	0 <u>1</u>	Setting of EQ IC software	Factory use only
C31	VCATH	0~ <u>56</u> ~127	Setting of EQ IC software	Factory use only
C32	THEYE	0~ <u>110</u> ~255	Setting of EQ IC software	Factory use only
C33	THULK	0~ <u>94</u> ~255	Setting of EQ IC software	Factory use only
C34	ENVTH	0~ <u>16</u> ~255	Setting of EQ IC software	Factory use only
C35	ATFGL	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
C36	ATFGR	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
C37	VCO FREQ	—	<b>SAVE or LOAD the VCO Center Frequency</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
C38	TAP	—	<b>SAVE or LOAD the TAP Coefficient</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
C39	DEFAULT	—	<b>Factory default setting</b> <Operation>: 1. Press the [ MARK IN ] button then the message "LOAD" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	N/A



**D00: RF 50M REC**

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
D01	REC CURR L1	0~ <u>200</u> ~255	Setting of Recording current value for RP L1ch head	
D02	REC CURR L2	0~ <u>200</u> ~255	Setting of Recording current value for RP L2ch head	
D03	REC FREQ L1	0~ <u>200</u> ~255	Setting of Recording frequency value for RP L1ch head	
D04	REC FREQ L2	0~ <u>200</u> ~255	Setting of Recording frequency value for RP L2ch head	
D05	REC CURR R1	0~ <u>200</u> ~255	Setting of Recording current value for RP R1ch head	
D06	REC CURR R2	0~ <u>200</u> ~255	Setting of Recording current value for RP R2ch head	
D07	REC FREQ R1	0~ <u>200</u> ~255	Setting of Recording frequency value for RP R1ch head	
D08	REC FREQ R2	0~ <u>200</u> ~255	Setting of Recording frequency value for RP R2ch head	



## E00: RF 25M PB

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
E01	PB MAG L1	0~ <u>128</u> ~255	Playback Output Gain Correction for PB L1ch head	
E02	PB MAG L2	0~ <u>128</u> ~255	Playback Output Gain Correction for PB L2ch head	
E03	PB PHASE L1	0~ <u>128</u> ~255	Playback Phase Correction for PB L1ch head	
E04	PB PHASE L2	0~ <u>128</u> ~255	Playback Phase Correction for PB L2ch head	
E05	PB MAG R1	0~ <u>128</u> ~255	Playback Output Gain Correction for PB R1ch head	
E06	PB MAG R2	0~ <u>128</u> ~255	Playback Output Gain Correction for PB R2ch head	
E07	PB PHASE R1	0~ <u>128</u> ~255	Playback Phase Correction for PB R1ch head	
E08	PB PHASE R2	0~ <u>128</u> ~255	Playback Phase Correction for PB R2ch head	
E09	PB SMAG L1	0~ <u>128</u> ~255	PB L1ch Playback Output Gain for ATF playback	
E10	PB SMAG L2	0~ <u>128</u> ~255	PB L2ch Playback Output Gain for ATF playback	
E11	PB SMAG R1	0~ <u>128</u> ~255	PB R1ch Playback Output Gain for ATF playback	
E12	PB SMAG R2	0~ <u>128</u> ~255	PB R1ch Playback Output Gain for ATF playback	
E13	VITERBI	OFF <u>ON</u>	The VITERBI mode is set Only effective on SERVICE MENU	
E14	ERROR MODE	<u>FAST</u> SLOW	The ERROR RATE display mode is set Only effective on SERVICE MENU	
E15	25M TAPE PLAY	<u>ATF</u> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF25R	Force Playback with setting servo to the selected format Only effective on SERVICE MENU	
E16	AUTO EQ	OFF <u>ON</u>	PB EQUALIZER AUTO Adj. ON/OFF Only effective on SERVICE MENU	
E17	STB ON	0 <u>1</u>	Setting of EQ IC software	Factory use only
E18	FLTD	0 <u>1</u>	Setting of EQ IC software	Factory use only
E19	FLTLG	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
E20	VCASP	0 <u>1</u>	Setting of EQ IC software	Factory use only
E21	AGSPD	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
E22	AQSPTR	0 <u>1</u>	Setting of EQ IC software	Factory use only
E23	SPTRTH	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
E24	EQSPD	0~ <u>1</u> ~3	Setting of EQ IC software	Factory use only



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
E25	PXIBT	0~ <u>3</u>	Setting of EQ IC software	Factory use only
E26	PLLA	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
E27	PCFIX	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
E28	PLLB	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
E29	AGCO	0~ <u>96</u> ~255	Setting of EQ IC software	Factory use only
E30	VCOA	0 <u>1</u>	Setting of EQ IC software	Factory use only
E31	VCATH	0~ <u>56</u> ~127	Setting of EQ IC software	Factory use only
E32	THEYE	0~ <u>110</u> ~255	Setting of EQ IC software	Factory use only
E33	THULK	0~ <u>94</u> ~255	Setting of EQ IC software	Factory use only
E34	ENVTH	0~ <u>16</u> ~255	Setting of EQ IC software	Factory use only
E35	ATFGL	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
E36	ATFGR	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
E37	VCO	—	<b>SAVE or LOAD the VCO Center Frequency</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
E38	TAP	—	<b>SAVE or LOAD the TAP Coefficient</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
E39	DEFAULT	—	<b>Factory default setting</b> <Operation>: 1. Press the [ MARK IN ] button and the message "LOAD" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	N/A



## F00: RF 25M RP

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
F01	RP MAG L1	0~ <u>128</u> ~255	Playback Output Gain Correction for RP L1ch head	
F02	RP MAG L2	0~ <u>128</u> ~255	Playback Output Gain Correction for RP L2ch head	
F03	RP PHASE L1	0~ <u>128</u> ~255	Playback Phase Correction for RP L1ch head	
F04	RP PHASE L2	0~ <u>128</u> ~255	Playback Phase Correction for RP L2ch head	
F05	RP MAG R1	0~ <u>128</u> ~255	Playback Output Gain Correction for RP R1ch head	
F06	RP MAG R2	0~ <u>128</u> ~255	Playback Output Gain Correction for RP R2ch head	
F07	RP PHASE R1	0~ <u>128</u> ~255	Playback Phase Correction for RP R1ch head	
F08	RP PHASE R2	0~ <u>128</u> ~255	Playback Phase Correction for RP R2ch head	
F09	RP SMAG L1	0~ <u>128</u> ~255	RP L1ch Playback Output Gain for ATF playback	
F10	RP SMAG L2	0~ <u>128</u> ~255	RP L2ch Playback Output Gain for ATF playback	
F11	RP SMAG R1	0~ <u>128</u> ~255	RP R1ch Playback Output Gain for ATF playback	
F12	RP SMAG R2	0~ <u>128</u> ~255	RP R1ch Playback Output Gain for ATF playback	
F13	VITERBI	OFF <u>ON</u>	The VITERBI mode is set Only effective on SERVICE MENU	
F14	ERROR MODE	<u>FAST</u> SLOW	The ERROR RATE display Mode is set Only effective on SERVICE MENU	
F15	25M TAPE PLAY	<u>ATF</u> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF25R	Force Playback with setting servo to the selected format Only effective on SERVICE MENU	
F16	AUTO EQ	OFF <u>ON</u>	PB EQUALIZER AUTO Adj. ON/OFF Only effective on SERVICE MENU	
F17	STB ON	0 <u>1</u>	Setting of EQ IC software	Factory use only
F18	FLTD	0 <u>1</u>	Setting of EQ IC software	Factory use only
F19	FLTLG	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
F20	VCASP	0 <u>1</u>	Setting of EQ IC software	Factory use only
F21	AGSPD	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
F22	AQSPTR	0 <u>1</u>	Setting of EQ IC software	Factory use only
F23	SPTRTH	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
F24	EQSPD	0~ <u>1</u> ~3	Setting of EQ IC software	Factory use only



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
F25	PXIBT	0~ <u>3</u>	Setting of EQ IC software	Factory use only
F26	PLLA	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
F27	PCFIX	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
F28	PLLB	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
F29	AGCO	0~ <u>96</u> ~255	Setting of EQ IC software	Factory use only
F30	VCOA	0 <u>1</u>	Setting of EQ IC software	Factory use only
F31	VCATH	0~ <u>56</u> ~127	Setting of EQ IC software	Factory use only
F32	THEYE	0~ <u>110</u> ~255	Setting of EQ IC software	Factory use only
F33	THULK	0~ <u>94</u> ~255	Setting of EQ IC software	Factory use only
F34	ENVTH	0~ <u>16</u> ~255	Setting of EQ IC software	Factory use only
F35	ATFGL	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
F36	ATFGR	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
F37	VCO FREQ	—	<b>SAVE or LOAD the VCO Center Frequency</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
F38	TAP	—	<b>SAVE or LOAD the TAP Coefficient</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
F39	DEFAULT	—	<b>Factory default setting</b> <Operation>: 1. Press the [ MARK IN ] button then the message "LOAD" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	N/A



**G00: RF 25M REC**

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
G01	REC CURR L1	0~ <u>200</u> ~255	Setting of Recording current value for RP L1ch head	
G02	REC CURR L2	0~ <u>200</u> ~255	Setting of Recording current value for RP L2ch head	
G03	REC FREQ L1	0~ <u>200</u> ~255	Setting of Recording frequency value for RP L1ch head	
G04	REC FREQ L2	0~ <u>200</u> ~255	Setting of Recording frequency value for RP L2ch head	
G05	REC CURR R1	0~ <u>200</u> ~255	Setting of Recording current value for RP R1ch head	
G06	REC CURR R2	0~ <u>200</u> ~255	Setting of Recording current value for RP R2ch head	
G07	REC FREQ R1	0~ <u>200</u> ~255	Setting of Recording frequency value for RP R1ch head	
G08	REC FREQ R2	0~ <u>200</u> ~255	Setting of Recording frequency value for RP R2ch head	



## H00: VIDEO

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
H01	CPS BLK DC	-128~ <u>0</u> ~127	Setting of DC level on composite output	
H02	Y+S BLK DC	-128~ <u>0</u> ~127	Setting of DC level on LCD Y signal	
H03	REC PR BAL	-128~ <u>0</u> ~127	Setting of REC PR Balance	
H04	REC PB BAL	-128~ <u>0</u> ~127	Setting of REC PB Balance	
H05	REC PR BAL SUB	-128~ <u>0</u> ~127	Setting of REC PR SUB Balance	
H06	REC PB BAL SUB	-128~ <u>0</u> ~127	Setting of REC PB SUB Balance	
H07	Y CLAMP DC	-128~ <u>0</u> ~127	Setting of REC Y CLAMP Balance	
H08	CPS Y LEVEL	-128~ <u>0</u> ~127	Setting of REC Y LEVEL for composite signal	
H09	CPS C LEVEL	-128~ <u>0</u> ~127	Setting of REC C LEVEL for composite signal	
H10	AXIS	-128~ <u>0</u> ~127	Setting of recording CHROMA PHASE	
H11	Y CLAMP SUB	-128~ <u>0</u> ~127	Setting of recording Y CLAMP DC level	
H12	V SETUP	OFF <b>ON</b>	Select the display VIN SETUP and VOUT SETUP on the SETUP MENU.	NOT USED
H13	N VIDEO LEV	-128~ <u>0</u> ~127	Setting of VIDEO LEVEL (NTSC) <Auto setting of Encoder VR> After select this item H13, the center value of item H13 to H22, are adjusted automatically by pressing [ VTR1/2 ] and [ ENTER ] button simultaneously. <b>NOTE:</b> Please set to center position of each Encoder VR(VIDEO LEVEL, SET UP, HUE, CHROMA LEVEL), when this auto setting is performed.	Please Perform this setting, when the Encoder VR P.C.Board or each VR's are exchanged.
H14	N SETUP ADD	-128~ <u>0</u> ~127	Set the SET UP level on SET UP ADD condition (NTSC)	
H15	N SETUP CUT	-128~ <u>0</u> ~127	Set the SET UP level on SET UP CUT condition (NTSC)	
H16	N HUE	-128~ <u>0</u> ~127	Setting of CHOROMA PHASE (NTSC)	
H17	N C LEV	-128~ <u>0</u> ~127	Setting of CHOROMA level (NTSC)	
H18	P VIDEO LEV	-128~ <u>0</u> ~127	Setting of VIDEO level (PAL)	
H19	P SETUP ADD	-128~ <u>0</u> ~127	Set the SET UP level on SET UP ADD condition (PAL)	
H20	P SETUP CUT	-128~ <u>0</u> ~127	Set the SET UP level on SET UP CUT condition (PAL)	
H21	P HUE	-128~ <u>0</u> ~127	Setting of CHOROMA level (PAL)	
H22	P C LEV	-128~ <u>0</u> ~127	Setting of CHOROMA level (PAL)	



## I00: SYSTEM

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
I01	UNDERCUT ADJ	000~FFF	Adjust the UNDER CUT voltage of Batleey Memorize setting value, when press the [ VTR1/2 ] and [ - ] button.	
	INPUT V	<u>00.0V</u> ~99.9V		
I02	S PHOTO	0.0V~3.3V	Display the S PHOTO SENSOR voltage. Move to measurement mode by pressing [ VTR1/2 ] button. End of measurement mode by pressing [ C ] button.	
	T PHOTO	0.0V~3.3V	Display the T PHOTO SENSOR voltage. Move to measurement mode by pressing [ VTR1/2 ] button. End of measurement mode by pressing [ C ] button.	
I03	REC DATA BAL	<b>NORMAL</b> 50CW 50CW/4 25CW 25CW/4	Select the RF RECORDING FREQUENCY. This setting value is effective on only service mode.	
I04	TRACKING MOD	<b>ATF</b> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF25R	Select the Tracking mode (ATF or CTL) Force play back with setting servo by setting format.	
I05	TRACKING VAL	-128~ <u>0</u> ~127	Tracking value is set in case CTL tracking mode.	
I06	MID M CAS	—	Set the mechanism to M cassette mode. <Operation> 1. Move to M Cassette mode by pressing [ VTR1/2 ] button. 2. Move to EJECT mode by pressing [ ENTER ] button. 3. Move to EJECT mode as above in case the cursor is escaped from this item,.	
I07	REF LEVEL	<b>FS-20</b> FS-18 FS-12	Select the position of Reference Level Marker on AUDIO LEVEL METER at FINE mode. FS-20:NTSC、FS-18:PAL、FS-12:YLE	
I08	INT SG	<b>OFF</b> ON	Select the INTERNAL AUDIO Signal output for Audio adjustment.	
I09	AUDIO ADJ	—	Automatic adjustment for audio adjustment VR on the front panel.  Press [ VTR1/2 ] and [ ENTER ] button after select this item, then set the value of voltage at unity condition of below indicated VR's automatically. <ul style="list-style-type: none"> <li>• Audio recording level controls</li> <li>• V1 audio playback level controls/V2 INT audio recording level controls</li> <li>• SDI audio recording level controls</li> <li>• V2 audio playback level controls</li> </ul> <b>NOTE:</b> In above indicated VR's, please set to center position about rotary VR and set to 0 of slide VR before perform this auto adjustment.	Please Perform this adjustment, when the front panel or each VR's are exchanged.
I10	LCD DIM	-30~ <u>0</u> ~30	Adjustment of LCD BACK LIGHT	
I11	LCD COLOR	-30~ <u>0</u> ~30	Adjustment of LCD COLOR level	
I12	LCD HUE	-30~ <u>0</u> ~30	Adjustment of LCD COLOR phase	



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
I13	LCD BRIGHT	-30~ <u>0</u> ~30	Adjustment of LCD BACK LIGHT (DARK)	
I14	N SCH	-128~ <u>0</u> ~127	Setting of SCH (NTSC)	
I15	N SYS SC	-128~ <u>0</u> ~127	Setting of SYS SC PHASE (NTSC)	
I16	N H PHASE	-128~ <u>0</u> ~127	Setting of H PHASE (NTSC)	
I17	N VIDEO POS	-128~ <u>0</u> ~127	Setting of VIDEO POSITION (NTSC)	
I18	P SCH	-128~ <u>0</u> ~127	Setting of SCH (PAL)	
I19	P SYS SC	-128~ <u>0</u> ~127	Setting of SYS SC PHASE (PAL)	
I20	P H PHASE	-128~ <u>0</u> ~127	Setting of H PHASE (PAL)	
I21	P VIDEO POS	-128~ <u>0</u> ~127	Setting of VIDEO POSITION (PAL)	
I22	RF AUTO ADJ	OFF REMOTE <u>ALL</u> 50ALL 25ALL 50PB 50RP 50REC 25PB 25RP 25REC	Set the RF AUTO adjustment	
I23	RF ADJ MODE	0~255	Set the RF AUTO adjustment mode	
I24	PB SLIDE VR	<u>VAL</u> ~UNI		
I25	DIAG DISP	—	Monitoring the information of VTR operation, history and EQ 100 setting. After select this item and press [ MARK IN ] button so that the following indicated items are displayed.	

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
I25	DIAG PAGE 1	—	Press [ MARK IN ] button so that the current condition of VTR operation is displayed by character code. The auto off information of VTR operation can be displayed, by pressing [ 1 ], [ 2 ] and [ 3 ] button further. Press [ 0 ] button so that the display return to present condition.	
I25	DIAG PAGE 2	—	Press [ MARK IN ] button so that the current condition of VTR operation is displayed by character code. The auto off information of VTR operation can be displayed, by pressing [ 1 ], [ 2 ] and [ 3 ] button further. Press [ 0 ] button so that the display return to present condition.	
I25	DIAG PAGE 3	—	Press [ MARK IN ] button so that the current condition of VTR operation is displayed by character code. Only current condition is displayed.	
I25	EQ100 50M	—	Monitoring the setting value of VCO and TAP on EQ. Press [ MARK IN ] button so that the setting value is displayed by character code.	Factory use only
I25	EQ100 25M	—	Monitoring the setting value of VCO and TAP on EQ. Press [ MARK IN ] button so that the setting value is displayed by character code.	Factory use only



## < DIAG PAGE OPERATION >

1. The current and previous condition of VTR operation can be confirmed by DIAG DISP mode on service menu.
2. The current and previous 3 condition of VTR operation is displayed by character code as indicated below.

00	FF	0F	00	00	20	FF	00
00	00	00	00	00	00	00	00
01	11	FF	FF	FF	FF	01	00
00	00	00	00	00	00	00	00
00	00	08	0C	00	00	00	00
08	00	41	00	00	DA	00	00
FF	00	00	00	01	01	01	00
00	00	00	00	FF	00	05	00
00	00	DA	00	00	00	DA	00
05	00	00	00	AA	AA	AB	07
BA	FF	FF	FF	BA	00	00	00

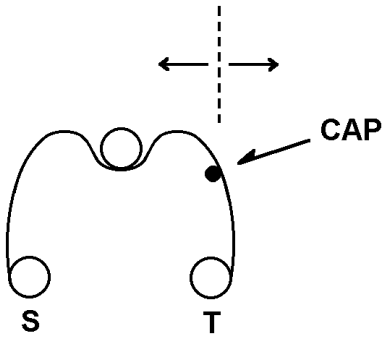
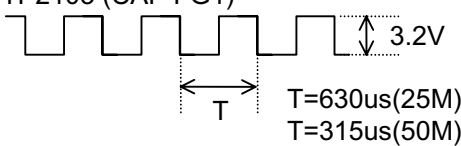
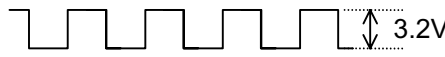
3. Purpose of DIAG PAGE 1,2 and 3 are described below.

DIAG PAGE 1	Current and previous 3 condition displayed to confirm SERVO process
DIAG PAGE 2	Current and previous 3 condition displayed to confirm SYSCON process
DIAG PAGE 3	Only current condition displayed



4. Use this DIAG PAGE function for analysis of AUTO OFF problem.



## 13. AUTO OFF CHECK POINT TABLE

ERROR CODE & MESSAGE	CHECK POINT	
<b>WINDUP_REEL_NOT_ROTATE</b> <div style="border: 1px solid black; padding: 2px; display: inline-block;">E-52</div>	<p>Check the tape slack position before power on.</p> <ul style="list-style-type: none"> <li>● S Reel side from capstan motor → S Reel side is problem at REV mode.</li> <li>● T Reel side from capstan motor → T Reel side is problem at FWD mode</li> </ul> 	<ol style="list-style-type: none"> <li>1. Check if Reel motor has dead point in the Reel Torque Offset Adjustment mode. [In case found dead point] <ul style="list-style-type: none"> <li>● Check loosen connector SERVO DRIVE board, MAIN CONTROL board</li> <li>● Check Servo Drive board Motor Drive circuit TH1,2,3±, SH1,2,3± --- Fig. 1 on page INF55 TM1,2,3, SM1,2,3 --- Fig. 2 on page INF55</li> <li>● Check Reel Motor and Replace Reel Motor</li> </ul> </li> <li>2. Check Reel Brake Solenoid (Check if the Reel Brake is smoothly released when the Reel Torque Offset Adjustment mode is executed.) [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector SERVO DRIVE board, MAIN CONTROL board</li> <li>● Check Servo Drive board Solenoid Drive circuit S_BRAKE_N, T_BRAKE_N --- Fig. 3 on page INF55.</li> </ul> </li> <li>3. Check the tape pass if grease or dust is attached.</li> </ol>
<b>WINDUP_ERROR</b> <div style="border: 1px solid black; padding: 2px; display: inline-block;">E-53</div>	<p>TP2103 (CAP FG1)</p>  <p>T=630us(25M) T=315us(50M)</p>  <p>SERVO DRIVE Board</p> <ul style="list-style-type: none"> <li>● SRL FG1 (TP2402)</li> <li>● SRL FG2 (TP2403)</li> <li>● TRL FG1 (TP2404)</li> <li>● TRL FG2 (TP2505)</li> </ul>	<ol style="list-style-type: none"> <li>1. Check the tension. <ul style="list-style-type: none"> <li>● Check Spring pressure --- Refer to the specification of Tension Regulator Spring Adjustment</li> <li>● Check Tension Voltage --- Tension sensor</li> </ul> </li> <li>2. Check the FG waveform. Capstan FG --- Check Capstan FG Reel FG --- Check Reel FG</li> <li>3. Check Reel Offset Torque --- Refer to Motor Torque Offset Adjustment.</li> <li>4. Check Tape Pass Load</li> <li>5. Check Tape Damage</li> </ol>



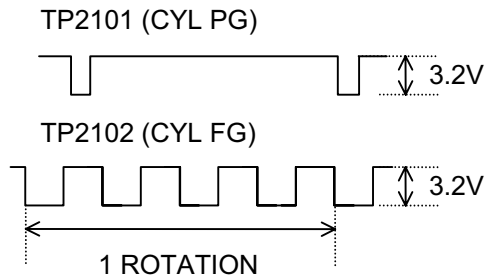
<p><b>S_FF/REW_TIME OVER</b></p> <p><b>E-57</b></p>	<p>Check where the problem occurred at tape beginning, tape end or other portion.</p>  <p>Servo Drive board</p> <ul style="list-style-type: none"> <li>● SRL FG1 (TP2402)</li> <li>● SRL FG2 (TP2403)</li> <li>● TRL FG1 (TP2404)</li> <li>● TRL FG2 (TP2505)</li> </ul>	<ol style="list-style-type: none"> <li>1. Check Reel FG [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector Servo Drive board, Main Control Board</li> <li>● Reel FG Sensor, Reel Replacement</li> </ul> </li> <li>2. Check transparent tape detection. [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector Servo Drive board, Main Control Board</li> <li>● Replace sensors.</li> </ul> </li> <li>3. Check the tape is not folded.</li> </ol>
<p><b>UNLOAD_ERROR</b></p> <p><b>E-55</b></p>	<p>Check if actually the tape is wound or not.</p>  <p>SERVO DRIVE Board</p> <ul style="list-style-type: none"> <li>● SRL FG1 (TP2402)</li> <li>● SRL FG2 (TP2403)</li> <li>● TRL FG1 (TP2404)</li> <li>● TRL FG2 (TP2505)</li> </ul>	<ol style="list-style-type: none"> <li>1. Check if Reel motor has dead point in the Reel Torque Offset Adjustment mode. [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector Servo Drive board, Main Control board</li> <li>● Check Servo Drive board Motor Drive circuit TH1,2,3±, SH1,2,3± --- Fig. 1 on page INF55 TM1,2,3, SM1,2,3 --- Fig. 2 on page INF55</li> <li>● Check Reel Motor Replace Reel Motor.</li> </ul> </li> <li>2. Check Reel Torque Offset [ In case of abnormal condition] Re-adjust Motor Torque Offset</li> <li>3. Check Reel Brake Solenoid (Check if the Reel Brake is smoothly released when the Reel Torque Offset Adjustment mode is executed.) [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector Servo Drive board, Main Control board</li> <li>● Check Servo Drive board Solenoid Drive circuit S_BRAKE_N, T_BRAKE_N --- Fig. 3 on page INF55</li> </ul> </li> <li>4. Check Reel FG</li> </ol>



**DRUM\_ROTATE  
\_TOO\_SLOW**

**E-59**

Check if the tape is stuck to the Cylinder.  
Check if the tape is stuck to some part of the tape pass then it causes the high tension. In this case tape may stop the Cylinder rotation.



Check Cylinder PG at TP2101

Check Cylinder FG at TP2102

[In case of FG is correct and PG is incorrect]  
PG signal flow is incorrect. (Cylinder >> Servo Drive >> Main Control)

[In case of both PG and FG are incorrect  
(Cylinder rotation is actually slow.)]

(1) Check Cylinder Unit.

Check that the Cylinder smoothly rotate in EJECT or UNLOAD condition. If it is not smooth, the Cylinder unit is defective.

(2) Check the rotary speed detection.

Check that the CYL\_FG\_ (TP2102) shows the pulse which is 4 pulses per rotation and the duty is 50 %, 0V/3.2V.

If it is incorrect, FG signal flow is incorrect.

(3) Check the Servo CPU outputs rotation acceleration command.

- Check that acceleration voltage (less than 1.6 V) is output at CYL\_ERR (TP3201).

- Check that drive on signal is 3.2 V at TP2301. When it is 1.6 V, it is OFF mode.

(4) Check the Reference voltage.

Check that V REF (IC2301-26 pin) voltage is about 1.6 V.

→ If (3) or (4) is incorrect, of SERVO CPU circuit on Main Control board is problem.

(5) Check Power Supply voltage.

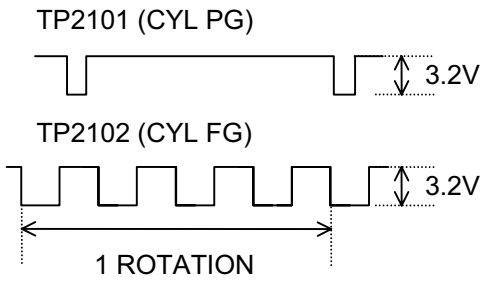
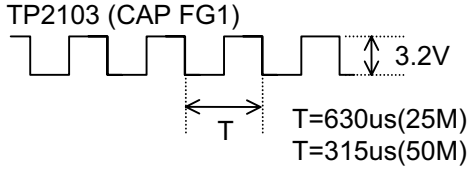
Check Drive IC voltage (VCC 5V : IC2301-27 pin) and Motor Drive voltage CYL\_VM (IC2301-12 pin).

The VM is positive voltage during Cylinder ON.

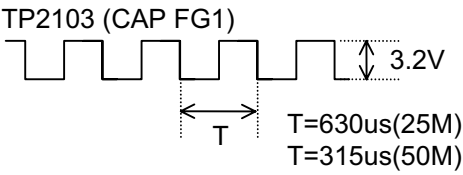
→ If it is correct, somewhere between Motor Drive and Cylinder problem.

Check connectors of Cylinder and Servo board.



<p><b>DRUM_ROTAT E_TOO_FAST</b></p> <p><b>E-60</b></p>	 <p>TP2101 (CYL PG)</p> <p>TP2102 (CYL FG)</p> <p>1 ROTATION</p> <p>3.2V</p> <p>3.2V</p>	<p>Check Cylinder PG at TP2101</p> <p>Check Cylinder FG at TP2102</p> <p>[In case of fast rotation]</p> <ul style="list-style-type: none"> <li>● Check Cylinder flexible cable and connectors.</li> <li>● Check CYL_ERR (TP3201) voltage.</li> </ul> <p>Normal Rotation : TP3201 = about 1.6 V</p> <p>During Full Acceleration : TP3201 = 0 V</p> <p>EJECT mode : TP3201 = 3.2 V</p> <p>V REF (IC2301-26 pin) = about 1.6 V fix</p> <p>If above voltage is incorrect, servo board is problem.</p> <p>[In case FG is correct and PG is incorrect]</p> <p>PG signal flow is incorrect. (Cylinder &gt;&gt; Servo Drive board&gt;&gt; Main Control board)</p>
<p><b>CAP_ROTATE_ TOO_FAST</b></p>	 <p>TP2103 (CAP FG1)</p> <p>3.2V</p> <p>T</p> <p>T=630us(25M)</p> <p>T=315us(50M)</p>	<p>Check Capstan FG at TP2103.</p> <ul style="list-style-type: none"> <li>● Check acceleration command.</li> </ul> <p>Confirm the V REF (IC2302 – 26 pin) is about 1.6 V.</p> <p>Confirm the CAP_ERR (TP3202) voltage is about 1.0 V at STOP condition.</p> <p>→If it is incorrect, command signal flow is problem.</p> <ul style="list-style-type: none"> <li>● Check the FG signal does not have noise.</li> </ul> <p>Check CAP_FG1,2 (TP2103, 2104) frequency is correspond with rotary speed. ( about 1.58 kHz in REC/PB mode:25M), ( about 3.16 kHz in REC/PB mode:50M)</p> <p>If it is incorrect, FG signal flow is problem.</p>

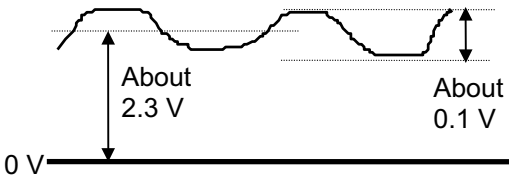
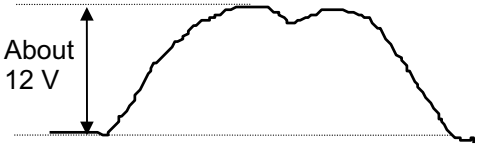
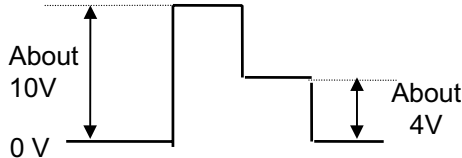


<p><b>CAP_ROTATE_ TOO_SLOW</b></p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 10px;">E-61</div>	<p>Check if the tape is stuck to the tape pass then tension is high. Check the mechanical load of Capstan.</p> <div style="text-align: center; margin-top: 100px;">  <p>TP2103 (CAP FG1)</p> <p>3.2V</p> <p>T</p> <p>T=630us(25M) T=315us(50M)</p> </div>	<p>Check Capstan FG at TP2103.</p> <ul style="list-style-type: none"> <li>● In case the Capstan Motor overrunning even the message is too slow. The FG signal to detect capstan speed is not supplied to the SERVO CPU. Check the frequency at CAP_FG1,2 (TP2103, 2104) is correspond with the rotary speed. (about 1.58 kHz, 0/3.2 V in REC/PB mode:25M). (about 3.16 kHz, 0/3.2 V in REC/PB mode:50M). Check the connectors of between Capstan and Servo.</li> <li>● In case Capstan does not rotate. (1) Check the Servo CPU supplies the acceleration command. Check the V REF (IC2302 – 26 pin) is about 1.6V. Check the CAP_ERR (TP3202) is acceleration command. It is below than V REF voltage. If the capstan does not rotate, the CAP_ERR voltage should be 0 V. Check Drive ON signal (TP3203) is 3.2V (rev) and 0V (fwd), 1.6 V (OFF). (2) Check the Power Supply voltage. Check the Drive IC power voltage (VCC 5V : IC2302 – 27 pin). Check Motor Drive voltage CAP_VM (IC2302 – 12 pin). (3) Check the Drive signal is supplied to Capstan motor. Check the connectors of Capstan and Servo. If above conditions are correct, motor or drive circuit is problem.</li> </ul>
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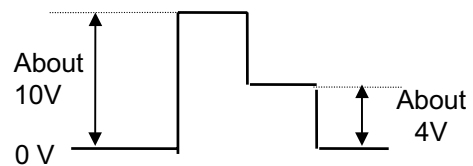
<p><b>S_REEL_ROT _TOO_FAST</b></p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">E-64</div>		<p>1. Check Reel FG waveform. Check the following signals input to SERVO CPU on Main Control board.</p> <ul style="list-style-type: none"> <li>● S-Reel-FG (IP21102-154 pin)</li> <li>● T-Reel-FG (IP21102-153 pin)</li> <li>● S-Reel-FWD-L (IP21102-191 pin)</li> <li>● T-Reel-FWD-L (IP21102-190 pin)</li> </ul> <p>[In case found problem]</p> <ul style="list-style-type: none"> <li>● Check loosen connector</li> </ul> <p>Servo Drive board, Main Control board</p> <ul style="list-style-type: none"> <li>● Reel FG Sensor and Reel Replacement</li> </ul> <p>2. Check Reel Drive circuit. TP2503 (S REEL ERR) and TP2504 (T REEL ERR) on SERVO board --- less than 0.5 V</p>
<p><b>T_REEL_ROT _TOO_FAST</b></p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">E-67</div>		<p>1. Check Reel FG waveform. Check the following signals input to SERVO CPU on Main Control board.</p> <ul style="list-style-type: none"> <li>● S-Reel-FG (IP21102-154 pin)</li> <li>● T-Reel-FG (IP21102-153 pin)</li> <li>● S-Reel-FWD-L (IP21102-191 pin)</li> <li>● T-Reel-FWD-L (IP21102-190 pin)</li> </ul> <p>[In case found problem]</p> <ul style="list-style-type: none"> <li>● Check loosen of connector</li> </ul> <p>Servo Drive board, Main Control board</p> <ul style="list-style-type: none"> <li>● Reel FG Sensor and Reel Replacement</li> </ul> <p>2. Check Reel Drive circuit. TP2503 (S REEL ERR) and TP2504 (T REEL ERR) on SERVO board --- less than 0.5 V</p>



<p><b>Fig. 1</b> <b>REEL Position Detect</b></p>	 <p>0 V</p> <p>About 2.3 V</p> <p>About 0.1 V</p>	<p>Rotate the REEL motor in EJECT mode and check the following waveform. (SERVO Drive board)</p> <p>P3135 - 16 TH1+ 14 TH1- 12 TH2+ 10 TH2- 8 TH3+ 6 TH3-</p> <hr/> <p>P3134 - 16 SH1+ 14 SH1- 12 SH2- 10 SH3+ 8 SH3+ 6 SH3-</p>
<p><b>Fig. 2</b> <b>REEL Drive Waveform</b></p>	 <p>About 12 V</p>	<p>Select T or S_REEL_TRQ on the MENU, and rotate the REEL and confirm the following waveform is like Fig. 2. (SERVO Drive board)</p> <p>P3135 - 13 TM3 17 TM2 9 TM1</p> <hr/> <p>P3134 - 13 SM3 17 SM2 9 SM1</p>
<p><b>Fig. 3</b> <b>Brake Solenoid</b></p>	 <p>About 10V</p> <p>0 V</p> <p>About 4V</p>	<p>Select T or S_REEL_TRQ on the MENU, and check the waveform appears at following positions when Brake is released like Fig. 3.</p> <ul style="list-style-type: none"> <li>● T_REEL_TRQ selection Servo Drive board P3118 -2 T_BRAKE_N</li> <li>● S_REEL_TRQ selection Servo Drive board P3115 -2 S_BRAKE_N</li> </ul>



**Fig. 3**  
**Brake Solenoid**

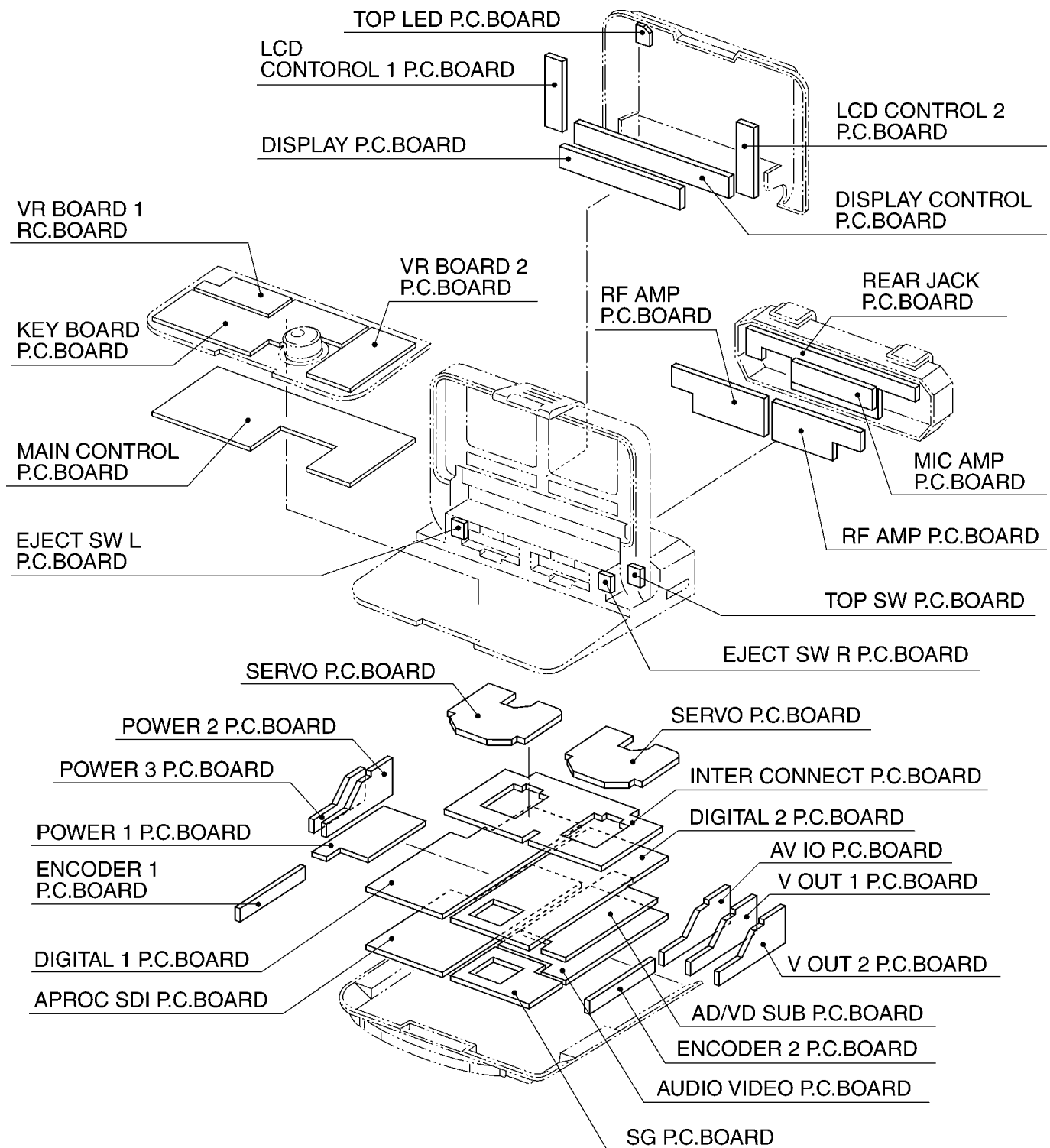


Select T or S\_REEL\_TRQ on the MENU, and check the waveform appears at following positions when Brake is released like Fig. 3.

- T\_REEL\_TRQ selection  
Servo Drive board P3118 -2 T\_BRAKE\_N
- S\_REEL\_TRQ selection  
Servo Drive board P3115 -2 S\_BRAKE\_N



# 14. Boards Location





# SECTION 3

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## DISASSEMBLY PROCEDURES

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### CONTENTS

1.	Removal of Top Case Unit .....	DIS-1
2.	Removal of LCD Panel Unit.....	DIS-1
3.	Removal of Bottom Case Unit.....	DIS-2
4.	Open the P.C. Board .....	DIS-2
5.	Removal of Key Panel Unit .....	DIS-3
6.	Removal of Front Panel Unit.....	DIS-4
7.	Removal of Front Loading Unit.....	DIS-5
8.	Removal of Mech Chassis Unit .....	DIS-6
9.	Removal of LCD Unit .....	DIS-6
10.	Removal of Rear Panel Unit .....	DIS-7
11.	Removal of Fan Motor .....	DIS-7



## 1. Removal of Top Case Unit

1. Pull the Lever and release the lock as shown in Figure 1.

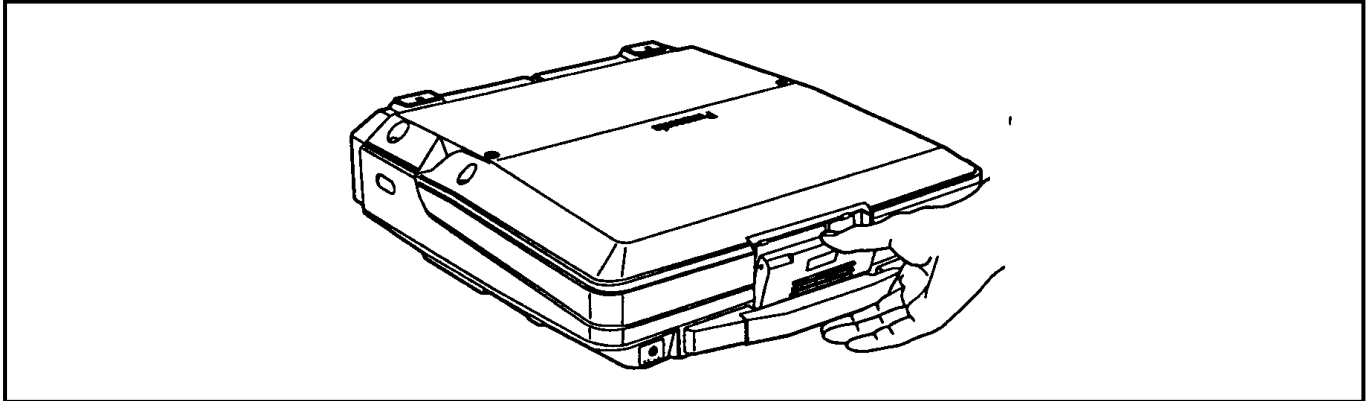


Figure 1

2. Loosen the 4 screws (A) as shown in Figure 2 and remove the Top Case Unit.

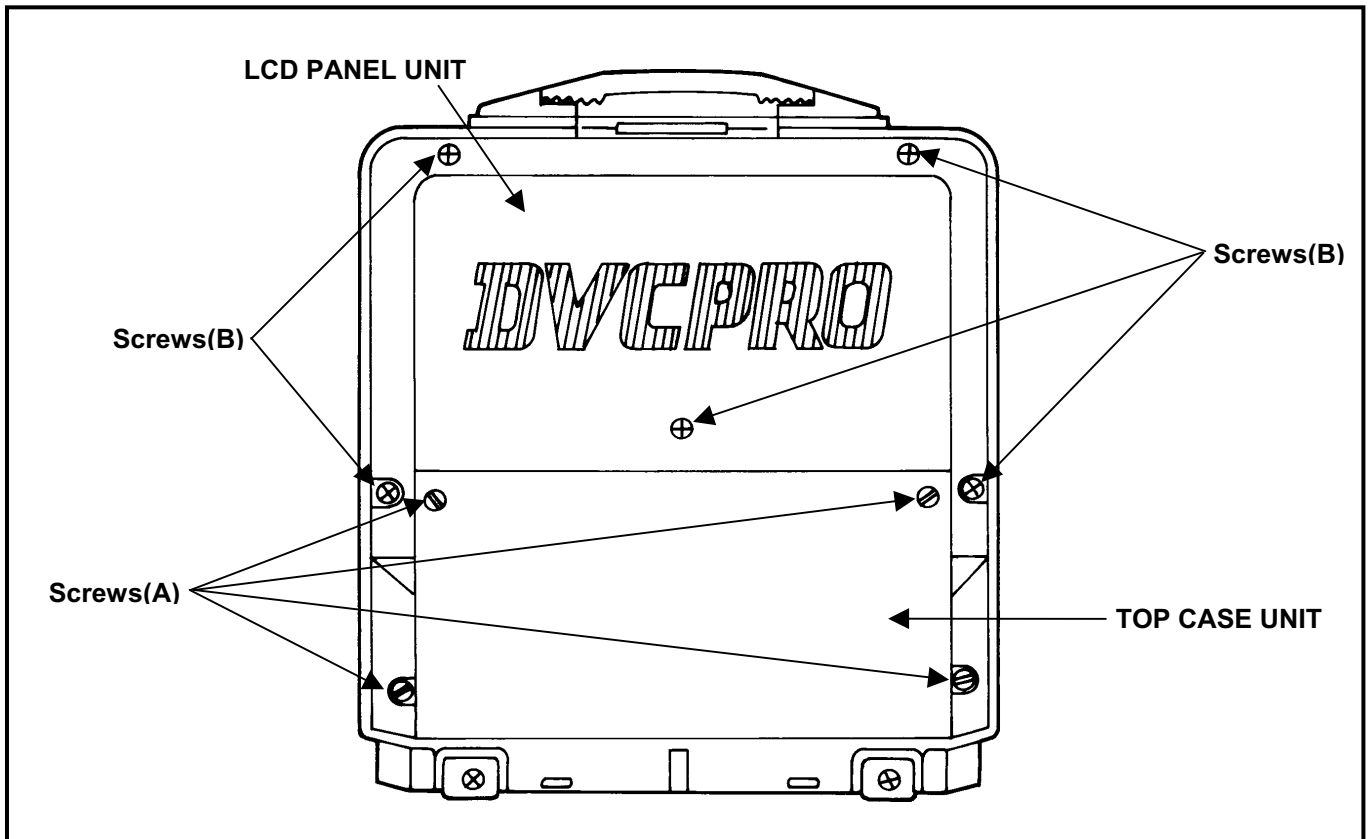


Figure 2

## 2. Removal of LCD Panel Unit

1. Unscrew the 5 screws (B) as shown in Figure 2 and remove the LCD Panel Unit.



### 3. Removal of Bottom Case Unit

1. Unscrew the 7 screws as shown in Figure 3 and remove the Bottom Case Unit.

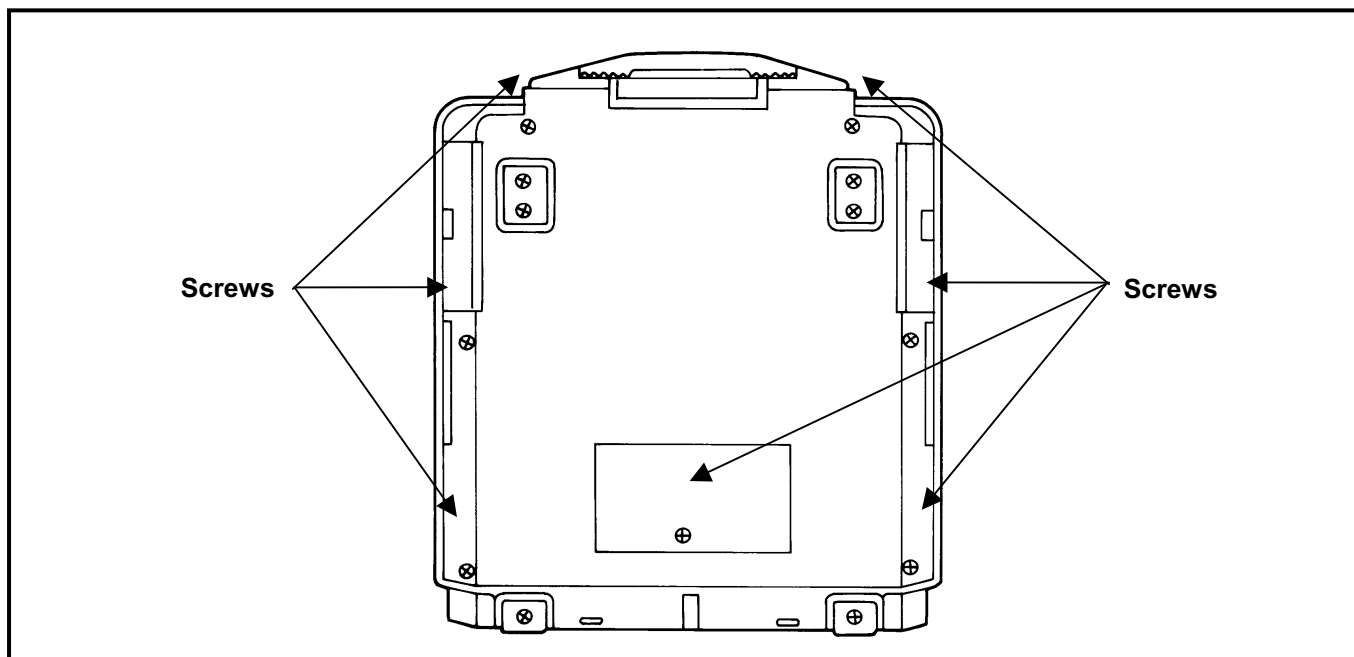


Figure 3

### 4. Open the P.C.Board Unit

**Note:** P.C.Board Unit is consist of Digital 1, 2, APROC & SDI, POWER 1,2,3, AUDIO VIDEO, SG, AD/VD SUB, ENCODER 1, 2 P.C.Board (P.C.Board Unit is not a unit of parts supply).

1. Unscrew the 5 screws as shown in Figure 4 and open the P.C.Board Unit.

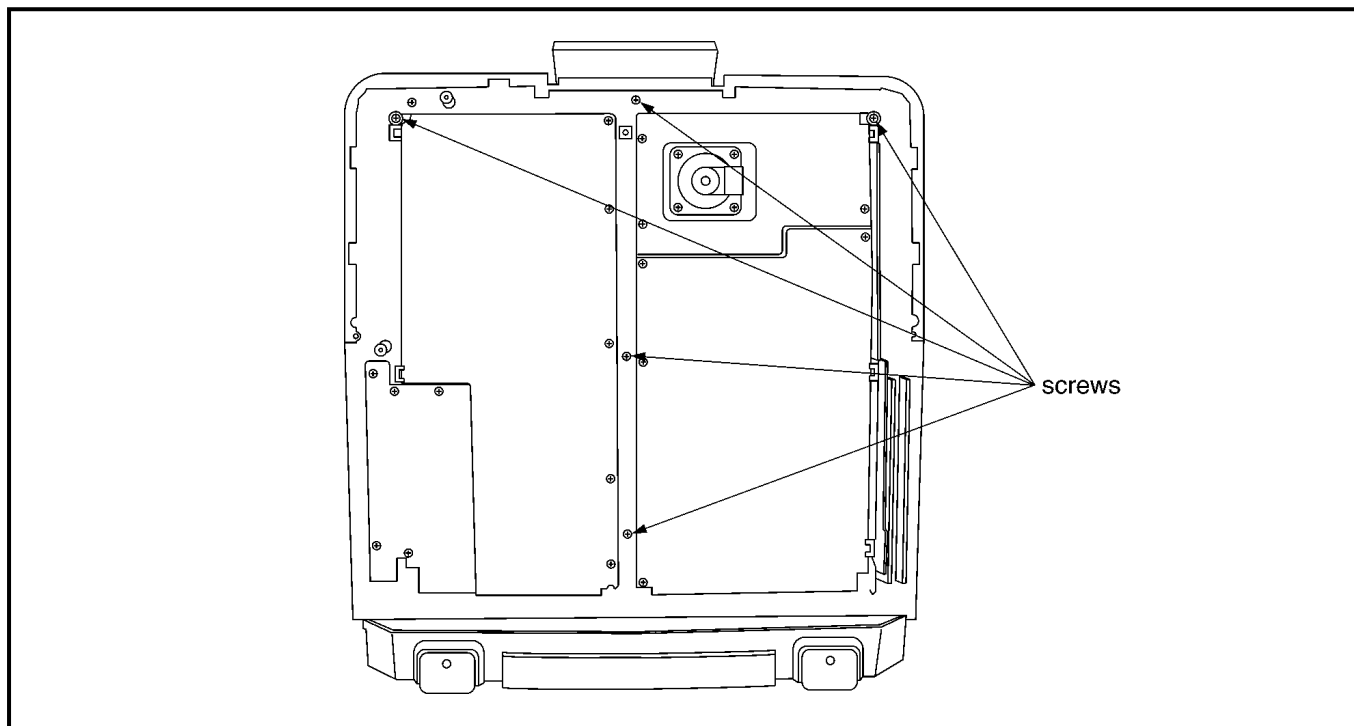


Figure 4



## 5. Removal of Key Panel Unit

1. Remove the Bottom Case Unit.
2. Open the P.C.Board Unit.
3. Disconnect the connector (A):P60003, (B):P21801, (C):P60004, (D):P60005, (E):P60002, (F):P21401, (G):P60001, (H):P65509, (I):P65508 on the MAIN CONTROL P.C.Board as shown in Figure 5.
4. Unscrew the 5 screws (J) as shown in Figure 5 and Remove the Key Panel Unit.

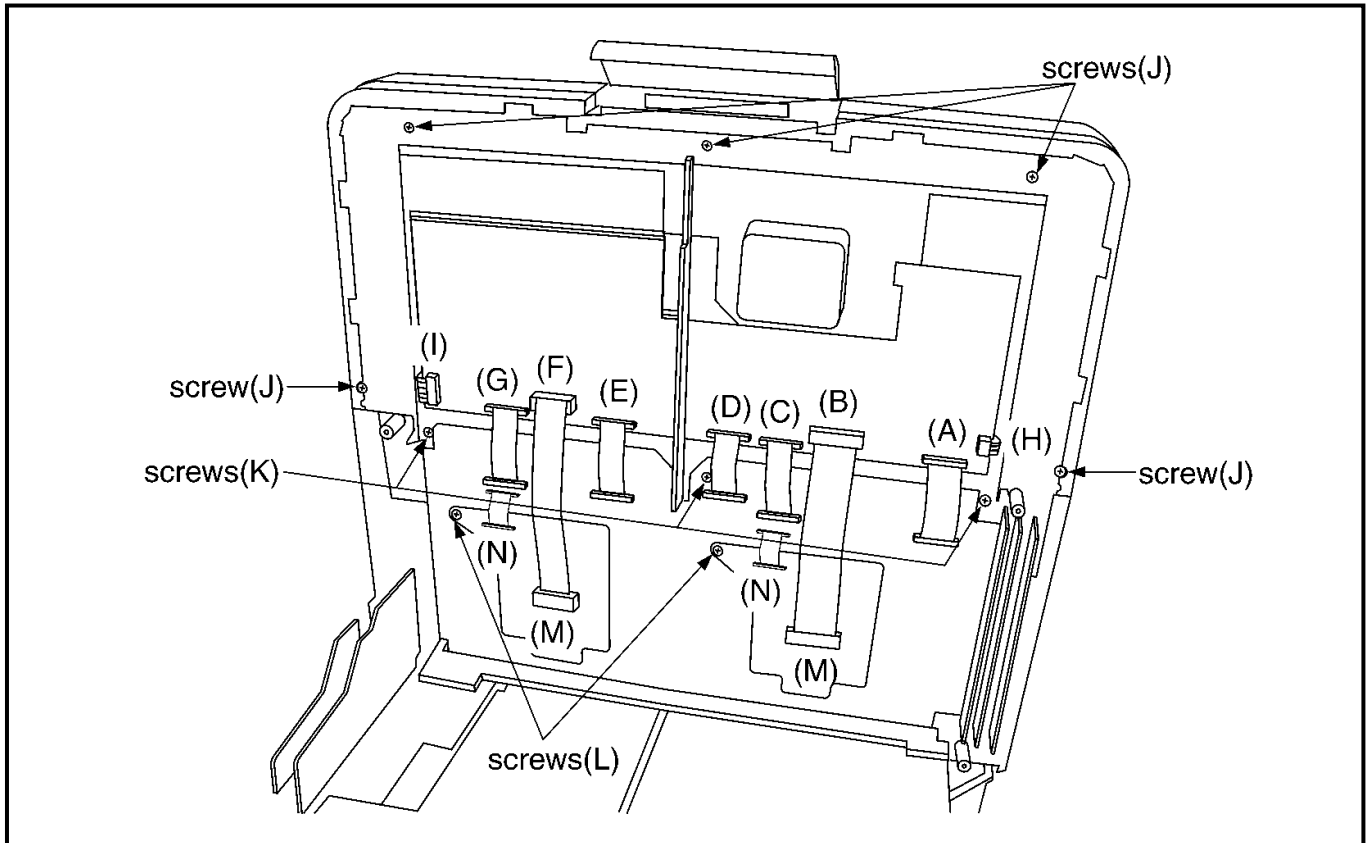


Figure 5



## 6. Removal of Front Panel

1. Remove the Top Case Unit.
2. Remove the Bottom Case Unit.
3. Open the P.C.Board Unit.
4. Remove the Key Panel Unit.
5. Unscrew the 3 screws (K) as shown in Figure 5.
6. Unscrew the 2 screws at left and right side, then remove the Front Panel as shown in Figure 6.

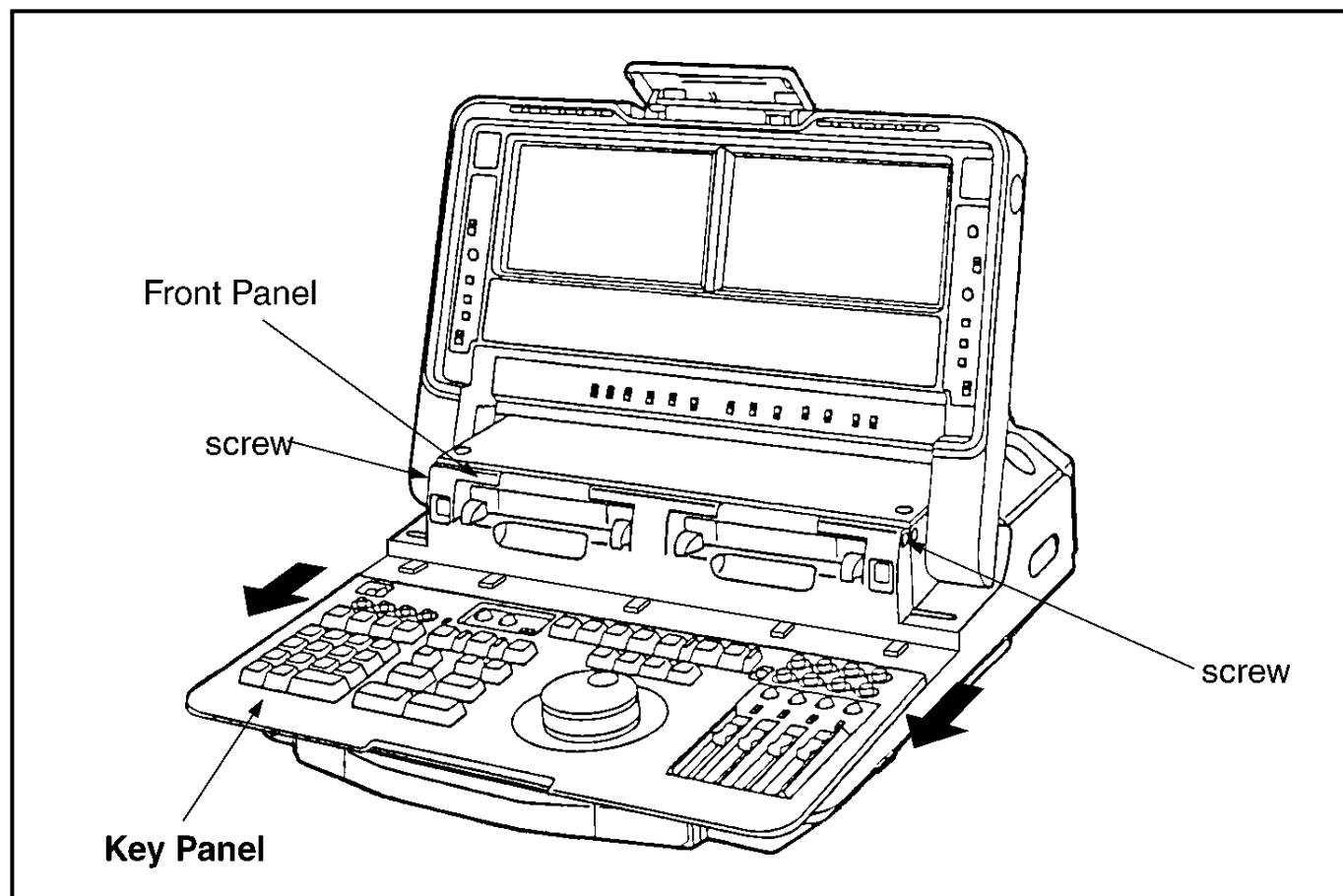


Figure 6



## 7. Removal of Front Loading Unit

1. Remove the LCD Panel Unit.
2. Disconnect the 2 connectors of Front Loading motor and mechanism interconnection as shown in Figure 7.
3. Disconnect the connector P52004 or P52006 from A/C Head cable as shown in Figure 7.
4. Rotate the red screw at the side of Front Loading Unit clockwise by a screw-driver pushing the screw to move the Cassette Holder until the 2 screws (A) can be seen.
5. Unscrew the 4 screws (A), (B) which are fixing Front Loading Unit and remove the Front Loading Unit.

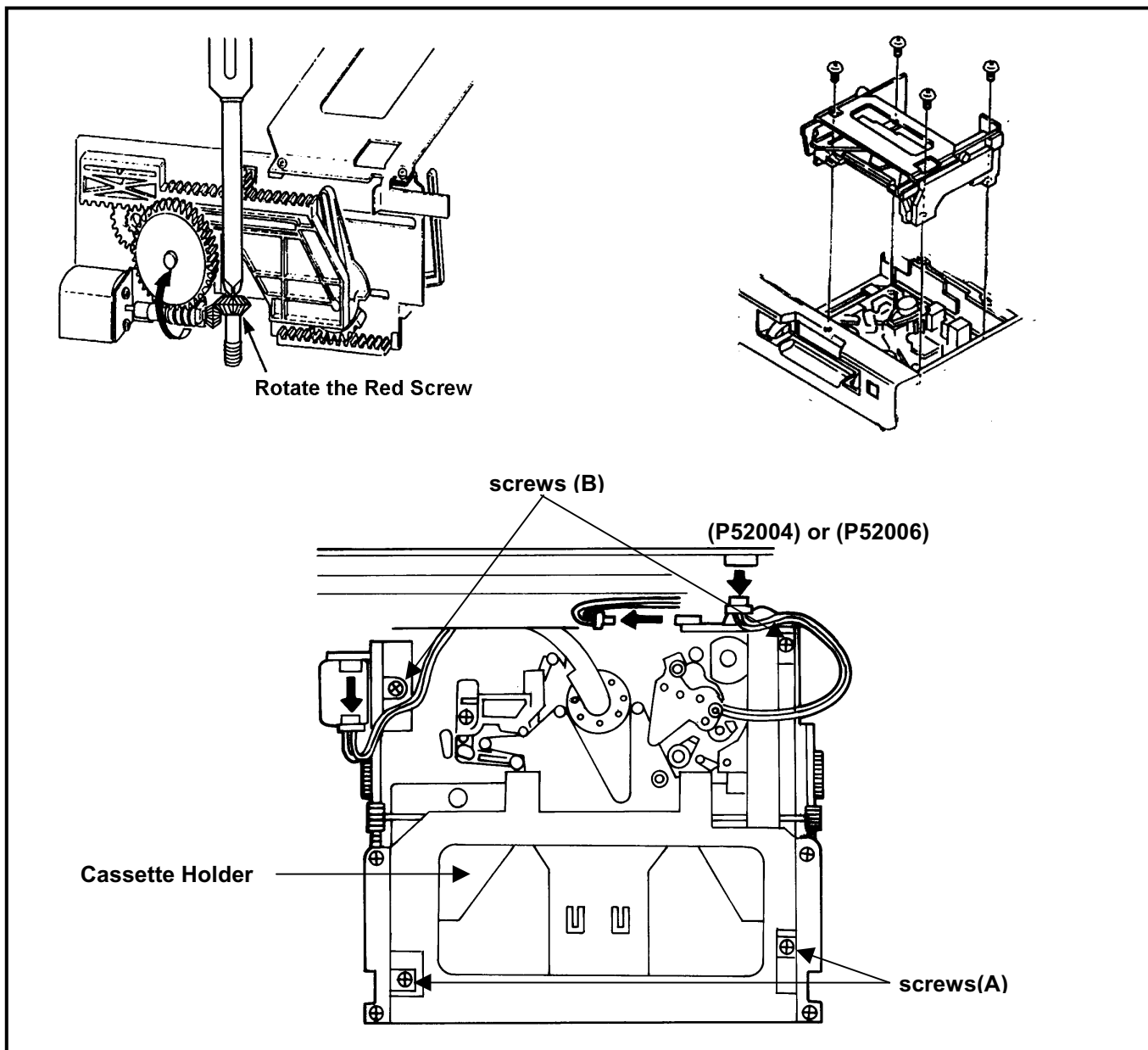


Figure 7



## 8. Removal of Mech Chassis Unit

1. Remove the Top Case Unit.
2. Remove the Bottom Case Unit.
3. Remove the Front Loading Unit.
4. Open the P.C.Board Unit.
5. Unscrew the screw (L) on the INTER CONNECT P.C.Board as shown in Figure 5 and remove the plastic plate.
6. Disconnect the connector (M):P22902, (N):P22901 on the SERVO P.C.Board as shown in Figure 5.
7. Disconnect the connector P52004, P52006, P52002, P52003 on the RF AMP 2 P.C.Board and the connector P51002, P51003 on the RF AMP 1 P.C.Board.
8. Unscrew the 3 screws as shown in Figure 8 and remove the Mech Chassis Unit.

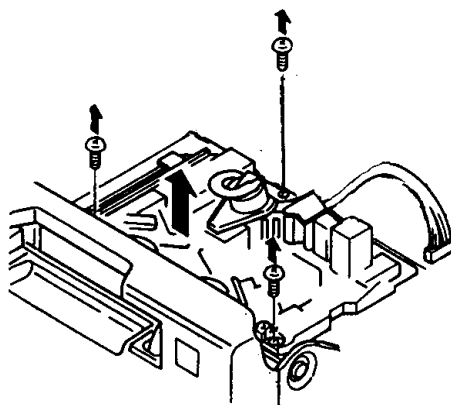


Figure 8

## 9. Removal of LCD Unit

1. Remove the Top Case Unit.
2. Disconnect the connector B1, B2 on the LCD P.C.Board as shown in Figure 9.
3. Unscrew the screw fixing the LCD Fixed Plate as shown in Figure 9 and remove the LCD Unit.

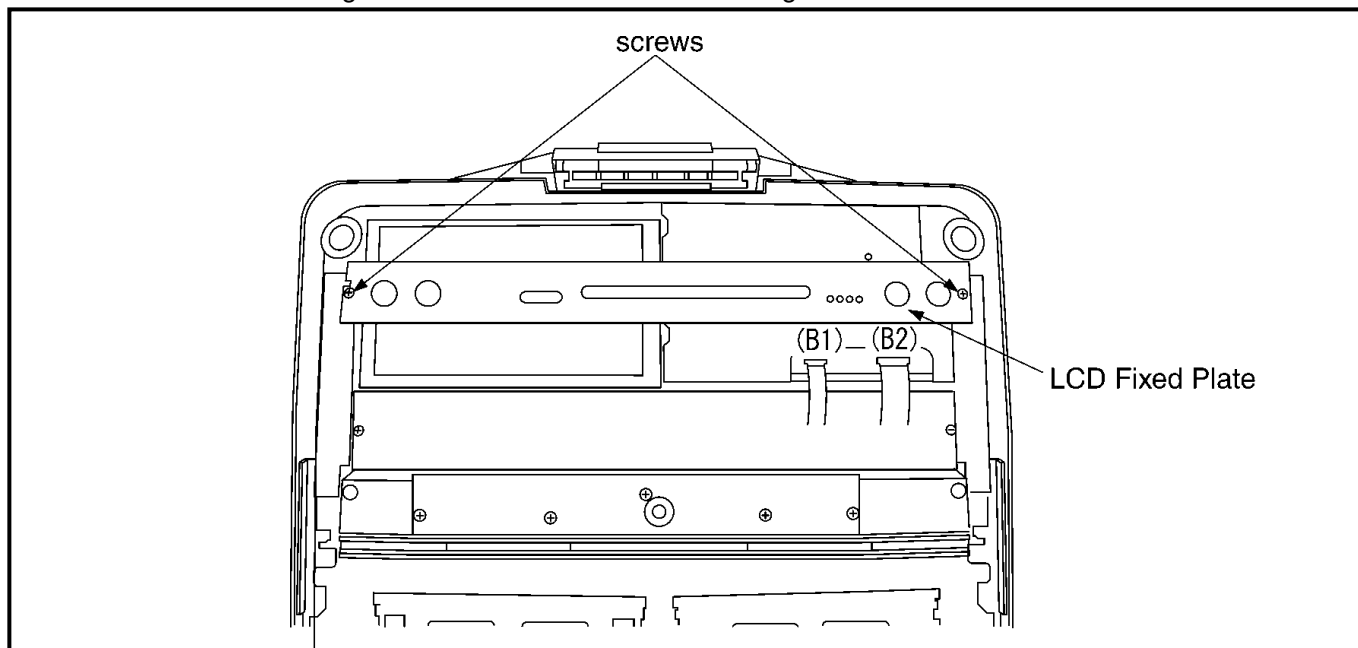


Figure 9



## 10. Removal of Rear Panel Unit

1. Unscrew the 4 screws (A) as shown in Figure 10.
2. Disconnect the connector P4004, P4006, P4005, P4007, P4010 and P4008 on the Rear Jack P.C.Board as shown in Figure 11.
3. Disconnect the connector P1001 on the POWER 2 P.C.Board.
4. Unplug the plug J3301, J3302, J3201 on the APROC & SDI P.C.Board and remove the Rear Panel Unit..



Figure 10

## 11. Removal of Fan Motor

1. Remove the Rear Panel Unit.
2. Unscrew the 6 screws (A) and remove the Fan Motor Fixed Plate.
3. Disconnect the connector P4008 and P4009 on the MIC AMP P.C.Board as shown in Figure 11 and remove the Fan Motor.

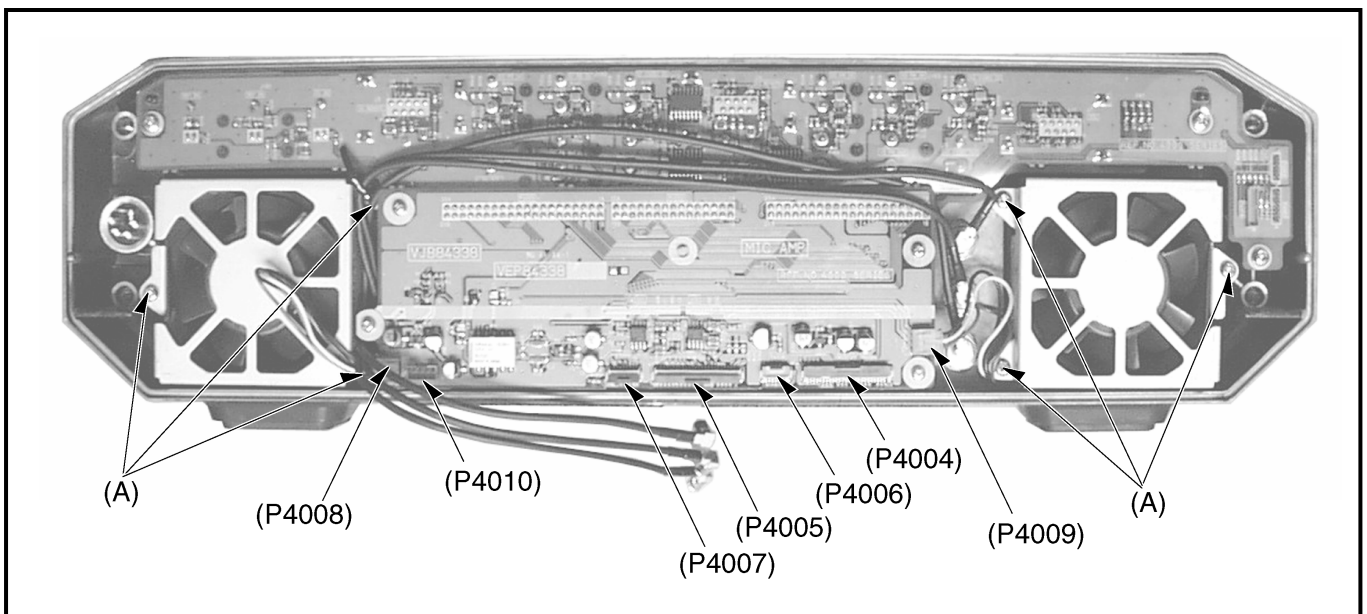


Figure 11



# SECTION 4

## ELECTRICAL ADJUSTMENT

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# 1. POWER

## 1-1. OSC Frequency Adjustment 1

<b>Board</b>	POWER 2
<b>Spec</b>	204kHz +/- 4kHz
<b>TP</b>	TP1101, TG1001 (GND)
<b>Adjust</b>	VR1101
<b>M.EQ</b>	Frequency Counter

1. Connect a frequency counter to TP1101 and TG1001, Adjust VR1101 so that the frequency is within the specification.

## 1-2. Power Voltage Confirmation 1

<b>Board</b>	POWER 1
<b>Spec</b>	As shown below
<b>TP</b>	As shown below
<b>M.EQ</b>	D.V.M

1. Confirm voltages as following chart.
2. If either one of them is out of specification. Implement the "1-1. OSC frequency Adjustment 1" again.

Item	Spec	TP
+3V output	+3.10V +/- 0.05V	TP1301
+3.3V output	+3.42V +/- 0.05V	TP1501
+5V output	+5.15V +/- 0.065V	TP1601
+5.6V_P1 output	+5.70V +/- 0.12V	TP1602
+5.6V_P2 output	+5.70V +/- 0.12V	TP1302
+9V output	+9.10V +/- 0.15V	TP1701
+12V output	+12.20V +/- 0.20V	TP1705
-5.6V_P1 output	-5.70V +/- 0.12V	TP1702
-5.6V_P2 output	-5.70V +/- 0.12V	TP1706
-9V output	-9.10V +/- 0.15V	TP1703
-12V output	-12.20V +/- 0.20V	TP1704

\*GND : TG1701

## 1-3. OSC Frequency Adjustment 2

<b>Board</b>	DISP CONT
<b>Spec</b>	102kHz +/- 2kHz
<b>TP</b>	TP68301, TP68304 (GND)
<b>Adjust</b>	VR68301
<b>M.EQ</b>	Frequency Counter

1. Connect a frequency counter to TP68301 and TP68304, Adjust VR68301 so that the frequency is within the specification.

## 1-4. Power Voltage Confirmation 2

<b>Board</b>	DISP CONT
<b>Spec</b>	As shown below
<b>TP</b>	TP68302, TP68305, TP68304 (GND)
<b>M.EQ</b>	D.V.M

1. Confirm voltages as following chart.
2. If either one of them is out of specification. Implement the "1-3. OSC frequency Adjustment 2" again.

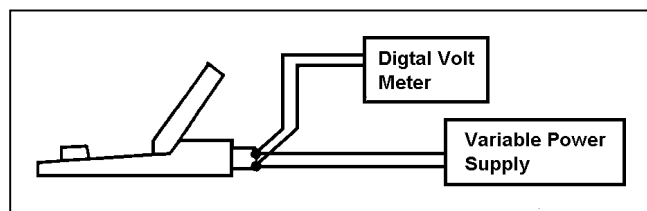
Item	Spec	TP
+9V output	+9.10V +/- 0.20V	TP68302
+9V output	+9.10V +/- 0.20V	TP68305

**NOTE:** Set "BACKLIGHT SW" to "LIGHT" position.

## 1-5. Adjustment for Battery Voltage Detection

<b>Board</b>	-----
<b>Spec</b>	+12.00V +/- 0.02V
<b>TP</b>	DC IN (VTR side, XLR Connector)
<b>Adjust</b>	I01 : UNDERCUT_ADJ (In the service menu on VTR1 side)
<b>Mode</b>	EJECT
<b>Tape</b>	-----
<b>M.EQ</b>	D.V.M

1. Connect a D.V.M to DC IN connector.
2. Adjust Variable power supply so that the voltage is +12.00V +/- 0.02V.
3. Open the SERVICE MENU on VTR1 side. And then select I00: SYSTEM ADJUST.
4. Press the "MARK IN button" to select I01: UNDERCUT\_ADJ.
5. Press the "VTR1 button" and "ENTER button" simultaneously.
6. Press the "MARK OUT button" to quit the service adjust.



**NOTE:** This adjustment should be done after "1-1. OSC Frequency adjustment" is completed.



## 2. SERVO

### 2-1. T Reel Torque Offset Adjustment

VTR	VTR1	VTR2
Board	ENCODER VR1	ENCODER VR2
Spec	0V +/- 5mV	
TP	TP4 (T_ERR) TP6 (SPA) TP1 (TMG)	TP4 (T_ERR) TP6 (SPA) TP1 (TMG)
Adjust	A01 : T_OFFSET	
Input	-----	
Mode	EJECT	
Tape	-----	
M.EQ	D.V.M	

1. Open the service menu A00 : SERVO ADJUST.
2. Connect D.V.M to TP4 AND TP1. Adjust A01 : T\_OFFSET on the service menu to be within the specification.
3. Connect a D.V.M to TP6 AND TP1, adjust A01 : T\_OFFSET on the service menu to be within the specification.
4. Press the "MARK OUT button" to quit adjustment mode.

### 2-2. S Reel Torque Offset Adjustment

VTR	VTR1	VTR2
Board	ENCODER VR1	ENCODER VR2
Spec	0V +/- 5mV	
TP	TP3 (S_ERR) TP6 (SPA) TP1 (TMG)	TP3 (S_ERR) TP6 (SPA) TP1 (TMG)
Adjust	A02 : S_OFFSET	
Input	-----	
Mode	EJECT	
Tape	-----	
M.EQ	D.V.M	

1. Open the service menu A00 : SERVO ADJUST.
2. Connect D.V.M to TP3 and TP1. Adjust A02: S\_OFFSET on the service menu to be within the specification.
3. Connect D.V.M to TP6 and TP1. Adjust A02: S\_OFFSET on the service menu to be within the specification.
4. press the "MARK OUT button" to quit adjustment mode.

### 2-3. Motor Torque Offset Adjustment

VTR	VTR1	VTR2
Board	SERVO	
Spec	0.15cN·m +/- 0.02 cN·m (15g +/- 2g) (Five times average)	
TP	-----	
Adjust	A03 : T_TORQUE A04 : S_TORQUE	
Mode	EJECT	
M.EQ	Dial torque gauge	

#### 1. Adjustment for VTR1 side

1. Open the service menu A00: SERVO ADJUST and then select A03: T\_TORQUE.
2. Set a Dial torque gauge onto the T reel motor.
3. Press the "VTR1 button" until loading is completed.
4. Adjust A03: T\_TORQUE so that the reel torque (Five times average) is within the specification.
5. Select A04: S\_TORQUE.
6. Set a Dial torque gauge onto the S reel motor.
7. Adjust A04: S\_TORQUE so that the reel torque (Five times average) is within the specification.
8. press "MARK OUT button" to quit adjustment mode.

#### 2. Adjustment for VTR2 side

9. Open the service menu A00: SERVO ADJUST and then select A03: T\_TORQUE.
10. Set a Dial torque gauge onto the T reel motor.
11. Press the "VTR2 button" until loading is completed.
12. Adjust A03: T\_TORQUE so that the reel torque (Five times average) is within the specification.
13. Select A04: S\_TORQUE.
14. Set a Dial torque gauge onto the S reel motor.
15. Adjust A04: S\_TORQUE so that the reel torque (Five times average) is within the specification.
16. press "MARK OUT button" to quit adjustment mode.



## 2-4. PG Shifter Adjustment 1 (50M)

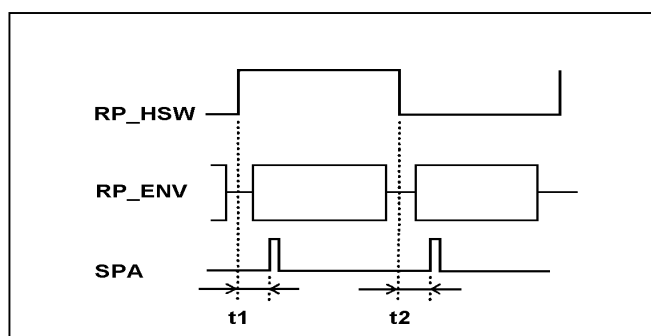
VTR	VTR1	VTR2
Board	ENCODER VR1 RF1	ENCODER VR2 RF2
Spec	t1, t2 = 126.8μs +/- 2μs	
TP	TP51902(RPHSW_L) [RF1] TP51401(ENV_L) [RF1] TP1(SPA) [ENCODER VR1]	TP52902(RPHSW_L) [RF2] TP52601(ENV_L) [RF2] TP1(SPA) [ENCODER VR2]
Adjust	A06 : PG_SFTR_50_R	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

### 1. Adjustment for VTR1 side

1. Open the service menu A00: SERVO ADJUST and then select A06: PG\_SFTR\_50\_R.
2. Play Alignment tape.
3. After the SERVO LED is light, keep pressing the VTR1 button until A06: PG\_SFTR\_50\_R value is renewed after A06 value become "0" at once.
4. Connect Oscilloscope to TP51902, TP51401 and TP1. Then confirm that t1 and t2 is within the specification as shown below.

### 2. Adjustment for VTR2 side

5. Open the service menu A00: SERVO ADJUST and then select A06: PG\_SFTR\_50\_R.
6. Play Alignment tape.
7. After the SERVO LED is light, keep pressing the VTR2 button until A06 : PG\_SFTR\_50\_R value is renewed after A06 value become "0" at once.
8. Connect Oscilloscope to TP52902, TP52601 and TP1. Then confirm that t1 and t2 is within the specification as shown below.



## 2-5. PG Shifter Adjustment 2 (25M)

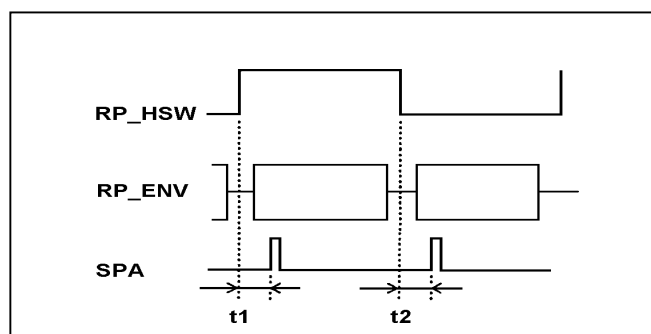
VTR	VTR1	VTR2
Board	ENCODER VR1 RF1	ENCODER VR2 RF2
Spec	t1, t2 = 253.6μs +/- 4μs	
TP	TP51902(RPHSW_L) [RF1] TP51401(ENV_L) [RF1] TP1(SPA) [ENCODER VR1]	TP52902(RPHSW_L) [RF2] TP52601(ENV_L) [RF2] TP1(SPA) [ENCODER VR2]
Adjust	A07 : PG_SFTR_25_R	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

### 1. Adjustment for VTR1 side

1. Open the service menu A00: SERVO ADJUST and then select A07: PG\_SFTR\_25\_R.
2. Play Alignment tape.
3. After the SERVO LED is light, keep pressing the VTR1 button until A07: PG\_SFTR\_25\_R value is renewed after A07 value become "0" at once.
4. Connect Oscilloscope to TP51902, TP51401 and TP1. Then confirm that t1 and t2 is within the specification as shown below.

### 2. Adjustment for VTR2 side

5. Open the service menu A00: SERVO ADJUST and then select A07: PG\_SFTR\_25\_R.
6. Play Alignment tape.
7. After the SERVO LED is light, keep pressing the VTR1 button until A07: PG\_SFTR\_25\_R value is renewed after A07 value become "0" at once.
8. Connect Oscilloscope to TP52902, TP52601 and TP1. Then confirm that t1 and t2 is within the specification as shown below.





## 3. RF, EQ

### 3-1. Auto EQ Adj. Procedure

The AJ-LT95 equipped with Automatic RF, EQ adjustment function in Service menu. For Operating Instructions as shown below.

VTR	VTR1	VTR2
Spec	RP Head: More than 5 PB Head: More than 9 (See 3-1-2. Instruction of Status Display)	
TP	-----	-----
Adjust	I22: RF AUTO ADJ I23: RF ADJ MODE	
Mode	-----	
Tape	VFM3683KM	
M.EQ	-----	

#### 3-1-1. Perform Adjustment

- Set the Service menu as shown below.

I23: RF ADJ MODE : 128  
I22: RF AUTO ADJ : ALL

**NOTE:** When adjustment needs to be done on specific mode, set menu I22: RF AUTO ADJ as follows.

ALL	Adjust all mode
50ALL	Adjust all 50M mode (PB+RP+REC)
25ALL	Adjust all 25M mode (PB+RP+REC)
50PB	Adjust only 50M PB Head
50RP	Adjust only 50M RP Head
50REC	Adjust only 50M REC mode
25PB	Adjust only 25M PB Head
25RP	Adjust only 25M RP Head
25REC	Adjust only 25M REC mode

- Set Cursor (\*) to I22: RF AUTO ADJ.
- Press VTR1 or VTR2 button according to VTR for adjustment and "ENTER" button simultaneously. In this case the Cursor is changed from "": Asterisk" to "→: Arrow mark".
- Insert the Alignment tape rewind.
- Auto EQ adjustment will be started and then display status on the LCD screen.
- Auto EQ adjustment is performed from 50PB to 25 REC. (It takes about 15minutes)
- When tape is Ejected, Adjustment is completed.
- Press "C" key on numerical keypad. (To exit from auto EQ adjustment mode)

#### 3-1-2. Instruction of Status Display

During auto adjustment, following status are displayed.

SERVICE-MENU SYS			
	①	②	③
50PB	MVPT	FFFF	AAAA
50RP	MVPT	FFFF	AAAA
25PB	MVPT	FFFF	AAAA
25RP	MVPT	FFFF	AAAA
50REC	→ MVPT	FFFF	AAAA
25REC			
→ I22: RF AUTO ADJ	-	ALL	
I23: RF ADJ MODE	-	128	
I24: PB SLIDE VR	-	VAL	
I25: DIAG DISP	-		

Status Display (Example)

Meaning of above status display is follows.

#### ① Adjustment Status

M : Proceeding ENV level adjustment  
V : Proceeding VCO adjustment  
P : Proceeding EQ Phase adjustment  
T : Proceeding EQ tap value adjustment

**NOTE:** When adjustment is completed, each Adjustment status will be keep display. If it has any problem of adjustment quality, each adjustment status will be disappeared and then display "Error Code" in Audio error rate display portion "③". For details, refer "3-1-3. Adjustment log and Error code display".

#### ② Error Rate Display (VIDEO)

#### ③ Error Rate Display (AUDIO)

Display condition of L1, L2, R1 and R2 (From left to right)

High←	Error rate																→Low
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
RP Spec						↑											
PB Spec										↑							

#### ④ Result of Auto EQ Adjustment

Display OK or NG to show if result is in specification or not.

\*How to quit while Auto EQ adjustment is on going.

Before Cassette Insert	Press "C" key on numerical keypad.
After Cassette Insert	Press "Eject" button and then press "C" key on numerical keypad.



### 3-1-3. Adjustment Log and Error Code Display

Adjustment log displays condition status of RF, EQ auto adjustment. If it has any problem of adjustment quality, each adjustment status will be disappeared and then display "Error Code" in Audio error rate display portion "㊸".

#### Adjustment Log (Meaning of Disappear)

M:	Refer to CODE: E008 in Error Code List.
V:	Refer to CODE: E006 in Error Code List.
P:	Refer to CODE: E009 in Error Code List.
T:	Refer to CODE: E007 in Error Code List.
C:	Refer to CODE: E010 – E013 in Error Code List.
F:	

#### Error Code List

CODE:	CAUSE	REMEDY
E000	Servo does not lock.	Confirm the Alignment tape is VFM3613KM or not.
E001	Video signal does not read.	
E002	Time out	
E003	Time out (Flag waiting).	
E004	Mechanism has not been transferred.	Check the Mechanism transport. (Loading/Capstan etc.)
E005	Search speed has not been changed.	
E006	VCO data transfer error.	Confirm connection between DIGITAL Board and MAIN CONTROL Board.
E007	TAP data transfer error.	
E008	ENV adjustment has been out of the specification (500mV +/- 50mVp-p).	Implement Manual adjustment "3-2-1. – 3-2-4. EQ Pre Adjustment" for it comes under VTR mode.
E009	At least one head has been out of the specification in EQ adjustment.	Implement Manual adjustment "3-2-5. – 3-2-8. EQ Adjustment" for it comes under VTR mode.
E010 E011 E012 E013	At least one head has been out of the specification in REC EQ adjustment.	Implement Manual adjustment "3-2-9. – 3-2-10. REC EQ Adjustment" for it comes under VTR mode.



## 3-2. Manual EQ Adj. Procedure

### 3-2-1. EQ Pre-adjustment (50M PB)

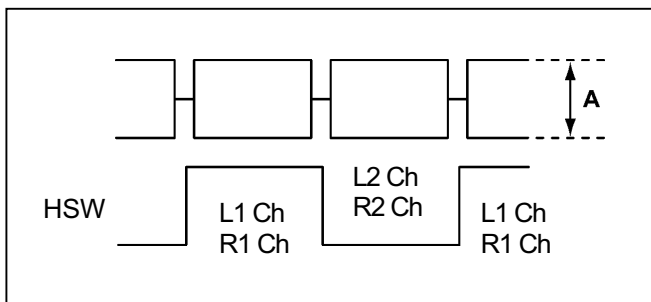
VTR	VTR1	VTR2
Board	DIGITAL 1	DIGITAL 2
Spec	A = 500mV +/- 50mVp-p	
TP	TP53102 (L Ch) TP53152 (R Ch) TP53701 (HSW)	TP54102 (L Ch) TP54152 (R Ch) TP54701 (HSW)
Adjust	B01: PB MAG L1 B02: PB MAG L2 B05: PB MAG R1 B06: PB MAG R2	
Input	-----	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

#### <Adjustment for VTR1 side>

1. Open the service menu B00: RF\_50M\_PB ADJUST and then press the VTR1 button.
2. Connect an Oscilloscope to TP53102 and TP53701. Then adjust B01 PB MAG L1 (L1 Ch) and B02 PB MAG L2 (L2 Ch) so that the signal level A is within the specification.
3. Connect an Oscilloscope to TP53152 and TP53701. Then adjust B05 PB MAG R1 (R1 Ch) and B06 PB MAG R2 (R2 Ch) so that the signal level A is within the specification.

#### <Adjustment for VTR2 side>

4. Open the service menu B00: RF\_50M\_PB ADJUST and then press the VTR2 button.
5. Connect an Oscilloscope to TP54102 and TP54701. Then adjust B01 PB MAG L1 (L1 Ch) and B02 PB MAG L2 (L2 Ch) so that the signal level A is within the specification.
6. Connect an Oscilloscope to TP54152 and TP54701. Then adjust B05 PB MAG R1 (R1 Ch) and B06 PB MAG R2 (R2 Ch) so that the signal level A is within the specification.



### 3-2-2. EQ Pre-adjustment (50M RP)

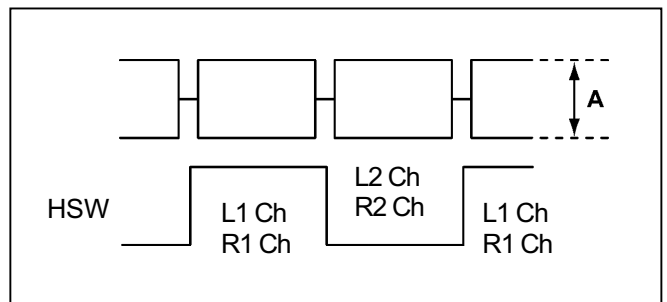
VTR	VTR1	VTR2
Board	DIGITAL 1	DIGITAL 2
Spec	A = 500mV +/- 50mVp-p	
TP	TP53102 (L Ch) TP53152 (R Ch) TP53701 (HSW)	TP54202 (L Ch) TP54252 (R Ch) TP54703 (HSW)
Adjust	C01: RP MAG L1 C02: RP MAG L2 C05: RP MAG R1 C06: RP MAG R2	
Input	-----	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

#### <Adjustment for VTR1 side>

1. Open the service menu C00: RF\_50M\_RP ADJUST and then press the VTR1 button.
2. Connect an Oscilloscope to TP53102 and TP53701. Then adjust C01 RP MAG L1 (L1 Ch) and C02 RP MAG L2 (L2 Ch) so that the signal level A is within the specification.
3. Connect an Oscilloscope to TP53152 and TP53701. Then adjust C05 RP MAG R1 (R1 Ch) and C06 RP MAG R2 (R2 Ch) so that the signal level A is within the specification.

#### <Adjustment for VTR2 side>

4. Open the service menu C00: RF\_50M\_RP ADJUST and then press the VTR2 button.
5. Connect an Oscilloscope to TP54202 and TP54703. Then adjust C01 RP MAG L1 (L1 Ch) and C02 RP MAG L2 (L2 Ch) so that the signal level A is within the specification.
6. Connect an Oscilloscope to TP54252 and TP54703. Then adjust C05 RP MAG R1 (R1 Ch) and C06 RP MAG R2 (R2 Ch) so that the signal level A is within the specification.





### 3-2-3. EQ Pre-adjustment (25M PB)

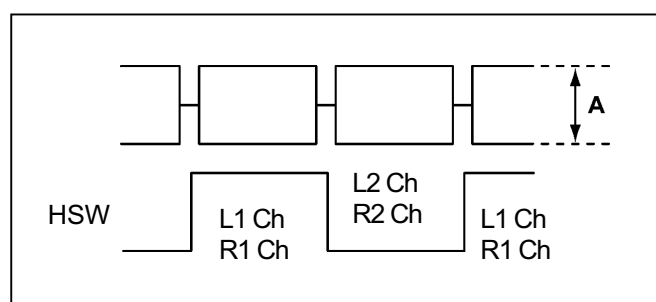
VTR	VTR1	VTR2
Board	DIGITAL 1	DIGITAL 2
Spec	A = 500mV +/- 50mVp-p	
TP	TP53102 (L Ch) TP53152 (R Ch) TP53701 (HSW)	TP54102 (L Ch) TP54152 (R Ch) TP54701 (HSW)
Adjust	E01: PB MAG L1 E02: PB MAG L2 E05: PB MAG R1 E06: PB MAG R2	
Input	-----	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

#### <Adjustment for VTR1 side>

1. Open the service menu E00: RF\_25M\_PB ADJUST and then press the VTR1 button.
2. Connect an Oscilloscope to TP53102 and TP53701. Then adjust E01 PB MAG L1 (L1 Ch) and E02 PB MAG L2 (L2 Ch) so that the signal level A is within the specification.
3. Connect an Oscilloscope to TP53152 and TP53701. Then adjust E05 PB MAG R1 (R1 Ch) and E06 PB MAG R2 (R2 Ch) so that the signal level A is within the specification.

#### <Adjustment for VTR2 side>

4. Open the service menu E00: RF\_25M\_PB ADJUST and then press the VTR2 button.
5. Connect an Oscilloscope to TP54102 and TP54701. Then adjust E01 PB MAG L1 (L1 Ch) and E02 PB MAG L2 (L2 Ch) so that the signal level A is within the specification.
6. Connect an Oscilloscope to TP54152 and TP54701. Then adjust E05 PB MAG R1 (R1 Ch) and E06 PB MAG R2 (R2 Ch) so that the signal level A is within the specification.



### 3-2-4. EQ Pre-adjustment (25M RP)

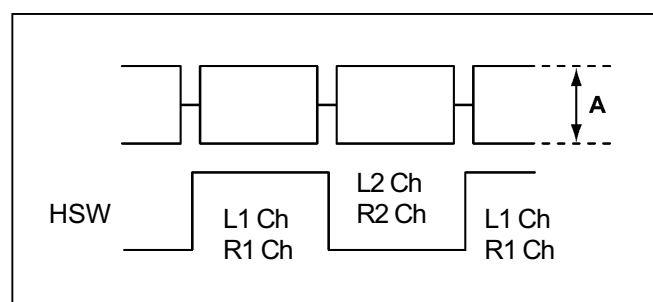
VTR	VTR1	VTR2
Board	DIGITAL 1	DIGITAL 2
Spec	A = 500mV +/- 50mVp-p	
TP	TP53102 (L Ch) TP53152 (R Ch) TP53701 (HSW)	TP54202 (L Ch) TP54252 (R Ch) TP54703 (HSW)
Adjust	F01: RP MAG L1 F02: RP MAG L2 F05: RP MAG R1 F06: RP MAG R2	
Input	-----	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

#### <Adjustment for VTR1 side>

1. Open the service menu F00: RF\_25M\_PB ADJUST and then press the VTR1 button.
2. Connect an Oscilloscope to TP53102 and TP53701. Then adjust F01 RP MAG L1 (L1 Ch) and F02 RP MAG L2 (L2 Ch) so that the signal level A is within the specification.
3. Connect an Oscilloscope to TP53152 and TP53701. Then adjust F05 RP MAG R1 (R1 Ch) and F06 RP MAG R2 (R2 Ch) so that the signal level A is within the specification.

#### <Adjustment for VTR2 side>

4. Open the service menu F00: RF\_25M\_PB ADJUST and then press the VTR2 button.
5. Connect an Oscilloscope to TP54202 and TP54703. Then adjust F01 RP MAG L1 (L1 Ch) and F02 RP MAG L2 (L2 Ch) so that the signal level A is within the specification.
6. Connect an Oscilloscope to TP54252 and TP54703. Then adjust F05 RP MAG R1 (R1 Ch) and F06 RP MAG R2 (R2 Ch) so that the signal level A is within the specification.





### 3-2-5. EQ Adjustment (50M PB)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	Audio level meter (Counter display)
<b>Adjust</b>	B03 : PB PHASE L1, B37 : VCO B04 : PB PHASE L2, B38 : TAP B07 : PB PHASE R1 B08 : PB PHASE R2
<b>Input</b>	-----
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM : Colour bar
<b>M.EQ</b>	-----

#### <Preparation>

1. Make a Tape EJECT mode.
2. Open the SERVICE MENU B00: RF\_50M\_PB ADJUST and then select B37 : VCO.
3. Press VTR1 or VTR2 button according to VTR for adjustment.
4. When "VCO FREQ SAVE" message is displayed, press the "MARK IN button".

#### <EQ adjustment>

5. Set the menu on the SERVICE MENU as shown below.

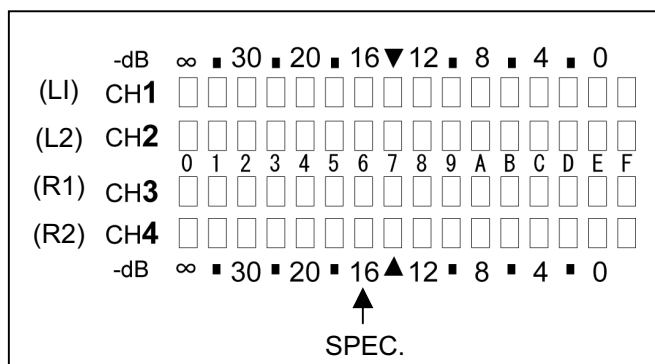
B13 VITERBI : OFF

B16 AUTO EQ : OFF

6. Play Alignment Tape.
7. Adjust B03 PB PHASE L1 (L1 Ch) and B04 PB PHASE L2 (L2 Ch) so that Error rate (L Ch) is within the specification.
8. Adjust B07 PB PHASE R1 (R1 Ch) and B08 PB PHASE R2 (R2 Ch) so that Error rate (R Ch) is within the specification.

#### <Result Confirmation and store Adj. Data>

9. Set B13, B16 to "ON" on SERVICE MENU, Confirm Error rate is within the specification.
10. Select B38: TAP on SERVICE MENU (Press the "MARK IN button"). Then press the "MARK IN button" again at the "TAP SAVE".



### 3-2-6. EQ Adjustment (50M RP)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	Audio level meter (Counter display)
<b>Adjust</b>	C03 : RP PHASE L1, C37 : VCO C04 : RP PHASE L2, C38 : TAP C07 : RP PHASE R1 C08 : RP PHASE R2
<b>Input</b>	-----
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM : Colour bar
<b>M.EQ</b>	-----

#### <Preparation>

1. Make a Tape EJECT mode.
2. Open the SERVICE MENU C00: RF\_50M\_RP ADJUST and then select C37: VCO.
3. Press VTR1 or VTR2 button according to VTR for adjustment.
4. When "VCO FREQ SAVE" message is displayed, press the "MARK IN button".

#### <EQ adjustment>

5. Set the menu on the SERVICE MENU as shown below.

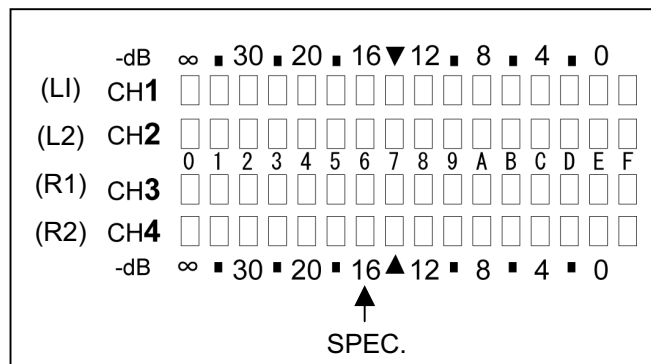
C13 VITERBI : OFF

C16 AUTO EQ : OFF

6. Play Alignment Tape.
7. Adjust C03 RP PHASE L1 (L1 Ch) and C04 RP PHASE L2 (L2 Ch) so that Error rate (L Ch) is within the specification.
8. Adjust C07 RP PHASE R1 (R1 Ch) and C08 RP PHASE R2 (R2 Ch) so that Error rate (R Ch) is within the specification.

#### <Result Confirmation and store Adj. Data>

9. Set C13, C16 to "ON" on SERVICE MENU, Confirm Error rate is within the specification.
10. Select C38: TAP on SERVICE MENU (Press the "MARK IN button"). Then press the "MARK IN button" again at the "TAP SAVE".





### 3-2-7. EQ Adjustment (25M PB)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	Audio level meter (Counter display)
<b>Adjust</b>	E03 : PB PHASE L1, E37 : VCO E04 : PB PHASE L2, E38 : TAP E07 : PB PHASE R1 E08 : PB PHASE R2
<b>Input</b>	-----
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM : Colour bar
<b>M.EQ</b>	-----

#### <Preparation>

1. Make a Tape EJECT mode.
2. Open the SERVICE MENU E00: RF\_25M\_PB ADJUST and then select E37: VCO.
3. Press VTR1 or VTR2 button according to VTR for adjustment.
4. When "VCO FREQ SAVE" message is displayed, press the "MARK IN button".

#### <EQ adjustment>

5. Set the menu on the SERVICE MENU as shown below.

E13 VITERBI : OFF

E16 AUTO EQ : OFF

6. Play the alignment Tape.
7. Adjust E03 PB PHASE L1 (L1 Ch) and E04 PB PHASE L2 (L2 Ch) so that Error rate (L Ch) is within the specification.
8. Adjust E07 PB PHASE R1 (R1 Ch) and E08 PB PHASE R2 (R2 Ch) so that Error rate (R Ch) is within the specification.

#### <Result Confirmation and store Adj. Data>

9. Set E13, E16 to "ON" on SERVICE MENU, Confirm Error rate is within the specification.
10. Select E38: TAP on SERVICE MENU (Press the "MARK IN button"). Then press the "MARK IN button" again at the "TAP SAVE".

-dB	∞	■	30	■	20	■	16	▼	12	■	8	■	4	■	0
(L1) CH1	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
(L2) CH2	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E
(R1) CH3	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
(R2) CH4	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
-dB	∞	■	30	■	20	■	16	▲	12	■	8	■	4	■	0
								↑							
								SPEC.							

### 3-2-8. EQ Adjustment (25M RP)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	Audio level meter (Counter display)
<b>Adjust</b>	F03 : RP PHASE L1, F37 : VCO F04 : RP PHASE L2, F38 : TAP F07 : RP PHASE R1 F08 : RP PHASE R2
<b>Input</b>	-----
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM : Colour bar
<b>M.EQ</b>	-----

#### <Preparation>

1. Make a Tape EJECT mode.
2. Open the SERVICE MENU F00: RF\_25M\_RP ADJUST and then select F37: VCO.
3. Press VTR1 or VTR2 button according to VTR for adjustment.
4. When "VCO FREQ SAVE" message is displayed, press the "MARK IN button".

#### <EQ adjustment>

5. Set the menu on the SERVICE MENU as shown below.

F13 VITERBI : OFF

F16 AUTO EQ : OFF

6. Play the alignment Tape.
7. Adjust F03 RP PHASE L1 (L1 Ch) and F04 RP PHASE L2 (L2 Ch) so that Error rate (L Ch) is within the specification.
8. Adjust F07 RP PHASE R1 (R1 Ch) and F08 RP PHASE R2 (R2 Ch) so that Error rate (R Ch) is within the specification.

#### <Result Confirmation and store Adj. Data>

9. Set F13, F16 to "ON" on SERVICE MENU, Confirm Error rate is within the specification.
10. Select F38: TAP on SERVICE MENU (Press the "MARK IN button"). Then press the "MARK IN button" again at the "TAP SAVE".

-dB	∞	■	30	■	20	■	16	▼	12	■	8	■	4	■	0
(L1) CH1	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
(L2) CH2	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E
(R1) CH3	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
(R2) CH4	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
-dB	∞	■	30	■	20	■	16	▲	12	■	8	■	4	■	0
								↑							
								SPEC.							



### 3-2-9. REC EQ Adjustment (50M)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	TP51401 (L Ch) TP51501 (R Ch) Audio level meter (Counter display)
<b>Adjust</b>	D01 : REC CURR L1, D02 : REC CURR L2 D03 : REC FREQ L1, D04 : REC FREQ L2 D05 : REC CURR R1, D06 : REC CURR R2 D07 : REC FREQ R1, D08 : REC FREQ R2
<b>Input</b>	-----
<b>Mode</b>	REC / PLAY
<b>Tape</b>	Blank Tape
<b>M.EQ</b>	Oscilloscope

#### <Preparation>

- Set the SERVICE MENU as shown below.  
B13 VITERBI : OFF  
B16 AUTO EQ : OFF  
D00: RF 50M REC ADJ **MARK IN**
- Press VTR1 or VTR2 button according to VTR for adjustment.

#### <Adjustment : L Ch>

- Connect an Oscilloscope to TP51401. Adjust D01, D02 so that the signal level becomes small, and readjust D01, D02 so that the level is become large (until no change).
- Adjust D01, D02 so that Error rate is within specification. (Variable range : +/- 30 steps)
- Connect an Oscilloscope to TP51401. Adjust D03, D04 so that the signal level becomes small, and readjust D03, D04 so that the level is become large (until no change).
- Adjust D03, D04 so that Error rate is within specification. (Variable range : +/- 30 steps)

#### <Adjustment : R Ch>

- Connect an Oscilloscope to TP51501. Adjust D05, D06 so that the signal level becomes small, and readjust D05, D06 so that the level is become large (until no change).
- Adjust D05, D06 so that Error rate is within specification. (Variable range : +/- 30 steps)
- Connect an Oscilloscope to TP51501. Adjust D07, D08 so that the signal level becomes small, and readjust D07, D08 so that the level is become large (until no change).
- Adjust D07, D08 so that Error rate is within specification. (Variable range : +/- 30 steps)

#### <Result confirmation>

- Set the SERVICE MENU as shown below.  
B13 VITERBI : ON  
B16 AUTO EQ : ON
- Record any signal for few minutes and then play recorded portion.
- Confirm Error rate is within the Specification.

### 3-2-10. REC EQ Adjustment (25M)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	TP51401 (L Ch) TP51501 (R Ch) Audio level meter (Counter display)
<b>Adjust</b>	G01 : REC CURR L1, G02 : REC CURR L2 G03 : REC FREQ L1, G04 : REC FREQ L2 G05 : REC CURR R1, G06 : REC CURR R2 G07 : REC FREQ R1, G08 : REC FREQ R2
<b>Input</b>	-----
<b>Mode</b>	REC / PLAY
<b>Tape</b>	Blank Tape
<b>M.EQ</b>	Oscilloscope

#### <Preparation>

- Set the SERVICE MENU as shown below.  
E13 VITERBI : OFF  
E16 AUTO EQ : OFF  
G00: RF 25M REC ADJ **MARK IN**
- Press VTR1 or VTR2 button according to VTR for adjustment.

#### <Adjustment : L Ch>

- Connect an Oscilloscope to TP51401. Adjust G01, G02 so that the signal level becomes small, and readjust G01, G02 so that the level is become large (until no change).
- Adjust G01, G02 so that Error rate is within specification. (Variable range : +/- 30 steps)
- Connect an Oscilloscope to TP51401. Adjust G03, G04 so that the signal level becomes small, and readjust G03, G04 so that the level is become large (until no change).
- Adjust G03, G04 so that Error rate is within specification. (Variable range : +/- 30 steps)

#### <Adjustment : R Ch>

- Connect an Oscilloscope to TP51501. Adjust G05, G06 so that the signal level becomes small, and readjust G05, G06 so that the level is become large (until no change).
- Adjust G05, G06 so that Error rate is within specification. (Variable range : +/- 30 steps)
- Connect an Oscilloscope to TP51501. Adjust G07, G08 so that the signal level becomes small, and readjust G07, G08 so that the level is become large (until no change).
- Adjust G07, G08 so that Error rate is within specification. (Variable range : +/- 30 steps)

#### <Result confirmation>

- Set the SERVICE MENU as shown below.  
E13 VITERBI : ON  
E16 AUTO EQ : ON
- Record any signal for few minutes and then play recorded portion.
- Confirm Error rate is within the Specification.

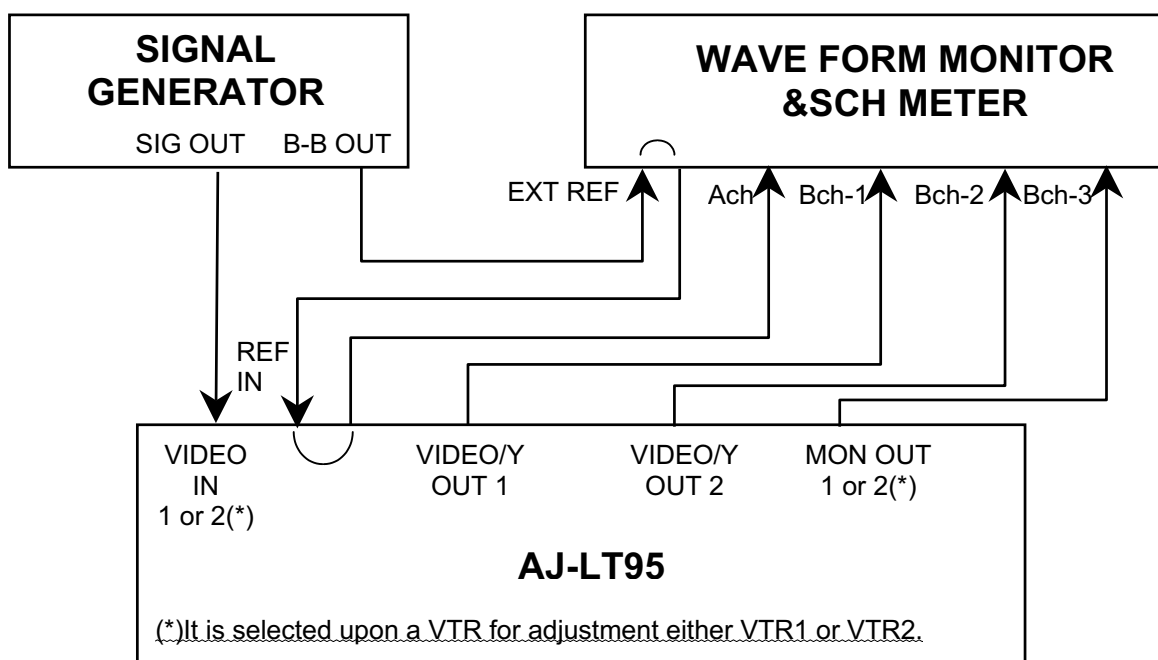


## 4. SYSTEM

### Preparation

1. Set the OPERATION MODE SW to "SEPARATE" Position without other instruction.
2. For Digital1 Board adjustment, use Input/Output connector and Encoder VRs of VTR1 and for Digital2 Board and Syncgen Board adjustment, use them of VTR2 without other instruction.
3. Set the Encoder VRs as following.  
SYSTEM H : Center click position  
SYSTEM SC FINE : Center click position  
SCH COARSE SW : 0 position
4. Performing adjustment more than 10 minutes after turning power on.
5. Input to REF IN connector should be VIDEO IN signal or signal synchronized with VIDEO IN.

#### 4-1. Connection for System Adjustment



#### <NOTE>

Since the AJ-LT95 is switchable for NTSC / PAL systems, Signal Generator, WFM and SCH meter for both system required.

#### 4-2. How to set the TV SYSTEM Mode (625 / 525)

1. Open the SETUP MENU 070: TV SYSTEM on VTR2 side.
2. Set the parameter to "625" or "525".
3. Turn the power Off then ON.

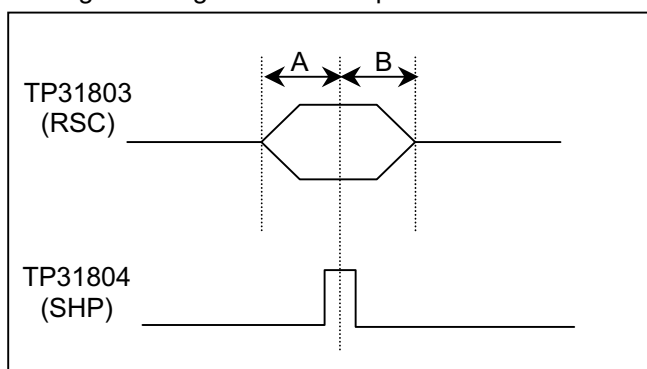


## 4-3. Adjustment for VTR1 side

### 4-3-1. SG S/H Adjustment (625 mode)

<b>Board</b>	Digital1
<b>Spec</b>	A=B +/- 10%
<b>TP</b>	TP31803 (RSC) TP31804 (SHP)
<b>Adjust</b>	VR31801
<b>Input</b>	REF IN / VIDEO IN 1: 75% Colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Oscilloscope

1. Connect an Oscilloscope to TP31803 (RSC) and TP31804 (SHP) then adjust VR31801 so that the signal timing is within the specification.



### 4-3-2. 17.7MHz VCO Adjustment (625 mode)

<b>Board</b>	Digital1
<b>Spec</b>	17734476Hz +/- 5Hz
<b>TP</b>	TP31903 (FS)
<b>Adjust</b>	VC31901 (FS PHASE)
<b>Input</b>	-----
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Frequency Counter

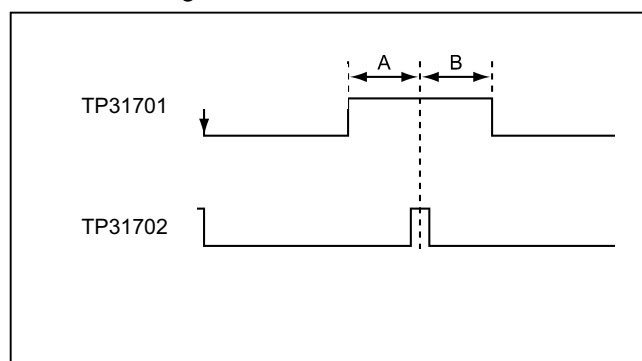
1. Disconnect REF IN signal.
2. Connect a Frequency counter to TP31903 then adjust VC31901 so that the frequency is within the specification.

### 4-3-3. CF DET Adjustment (625 mode)

<b>Board</b>	Digital1
<b>Spec</b>	A = B +/- 10%
<b>TP</b>	TP31701 TP31702
<b>Adjust</b>	VR31802 (DET)
<b>Input</b>	REF IN / VIDEO IN 1: 75% Colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Oscilloscope

1. Connect an Oscilloscope to TP31702 and TP31701 then adjust VR31802 so that the signal timing is within the specification.

**NOTE:** Confirm SCH of REF IN and VIDEO IN signal is 0 degrees.





#### 4-3-4. System H Phase Adjustment (525/625 mode)

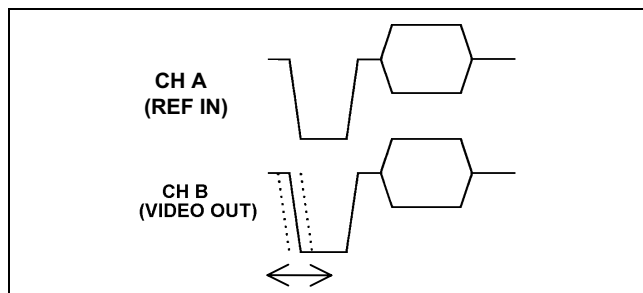
<b>Board</b>	Digital1
<b>Spec</b>	SCH : 0 +/- 1 degrees WFM: same timing CH A with CH B
<b>TP</b>	REF IN VIDEO/Y OUT 1
<b>Adjust</b>	I16:N_H_PHASE (525 mode) I19:P_SYS_SC (625 mode) I20:P_H_PHASE (625 mode) VR32001 (625 mode) VR31701 (625 mode)
<b>Input</b>	REF IN, VIDEO IN 1: 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	WFM, SCH meter

##### <Adjustment for 525 mode>

1. Open the SERVICE MENU and press the VTR1 button.
2. Adjust I16: N\_H\_PHASE so that CH B sync position meet it of CH A on WFM.

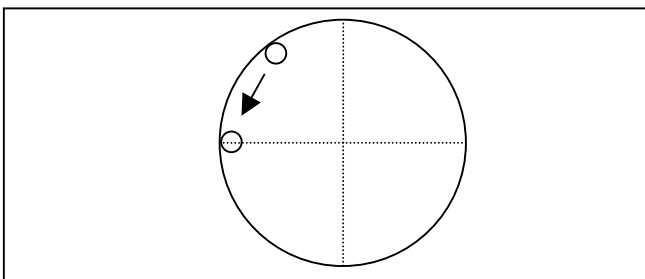
##### <Adjustment for 625 mode>

1. Open the SERVICE MENU and press the "VTR1 button".
2. Adjust I20: P\_H\_PHASE so that the CH A and CH B meet together on WFM.
3. If it does not meet by EVR, adjust VR31701.



**NOTE:** Set WFM to EXT REF mode.

4. Adjust I19: P\_SYS\_SC so that the CH A and CH B meet together on SCH meter.
5. If SCH can not be in specification by EVR, adjust VR32001.

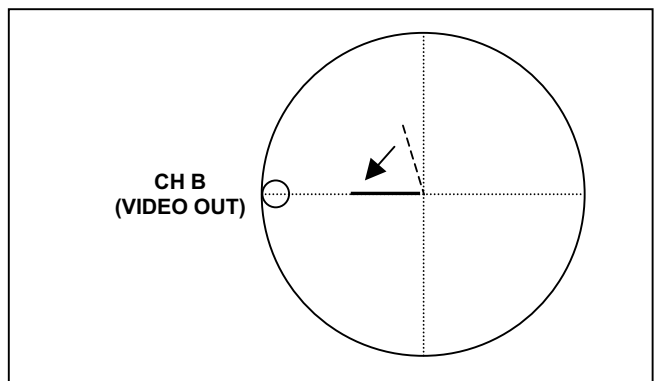


#### 4-3-5. Burst Phase Adjustment (525/625 mode)

<b>Board</b>	Digital1, Encoder VR
<b>Spec</b>	0 +/- 2 degrees
<b>TP</b>	REF IN VIDEO/Y OUT 1
<b>Adjust</b>	I14 : N_SCH (525 mode) B35 : ATFGL (525 mode) I18 : P_SCH (625 mode)
<b>Input</b>	REF IN, VIDEO IN 1: 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	SCH meter

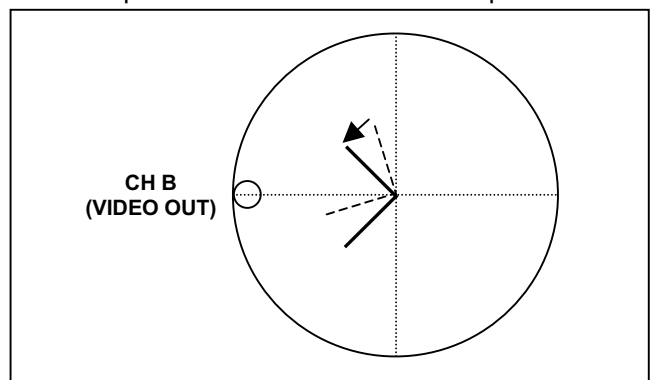
##### <Adjustment for 525 mode>

1. Open the Service menu and adjust B35: ATFGL so that the burst phase of VIDEO/Y OUT 1 (burst phase is changed 90 degrees each) come close to 0 degrees on SCH meter.
2. Adjust I14: N\_SCH so that the VIDEO/Y OUT 1 burst phase to REF IN signal is within the specification.



##### <Adjustment for 625 mode>

1. Set the SCH COARSE SW [Encoder Vr P.C.B] so that the burst phase of VIDEO/Y OUT 1 (burst phase is changed 90 degrees each) come to close to +/-135 degrees on SCH meter.
2. Adjust I18: P\_SCH so that the VIDEO/Y OUT 1 burst phase to REF IN is within the specification.



**NOTE:** Set SCH meter to EXT REF mode.



### 4-3-6. Video Position Adjustment (525/625 mode)

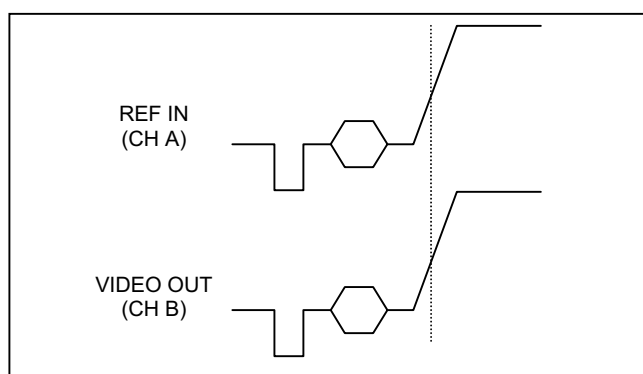
<b>Board</b>	Digital1
<b>Spec</b>	WFM: CH A and CH B same timing
<b>TP</b>	REF IN VIDEO/Y OUT 1
<b>Adjust</b>	I17 : N_VIDEO POS (525 mode) I21 : P_VIDEO POS (625 mode)
<b>Input</b>	REF IN : 100% colour bar
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3580KM or KL : Colour bar VFM3680KM or KL : Colour bar
<b>M.EQ</b>	WFM

#### <Adjustment for 525 mode>

1. Input 100% Colour Bar signal to REF IN connector.
2. Play the Alignment tape. (VFM3580KM or KL)
3. Adjust I17: N\_VIDEO POS so that the CH A and CH B Colour bar signal start timing meet together.

#### <Adjustment for 625 mode>

4. Input 100% Colour Bar signal to REF IN connector.
5. Play the Alignment tape. (VFM 3580KM or KL)
6. Adjust I21: P\_VIDEO POS so that the CH A and CH B Colour bar signal start timing meet together.





## 4-4. Adjustment for VTR2 side

### 4-4-1. SG S/H Adjustment (525/625 mode)

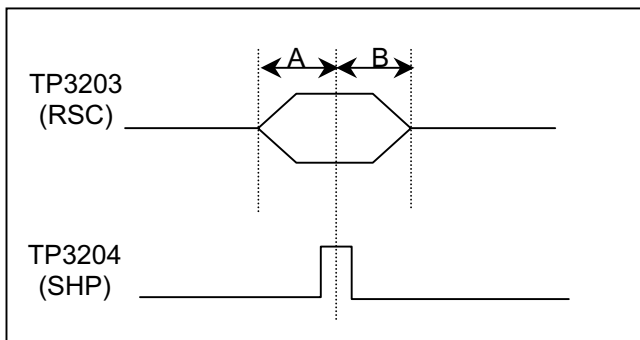
<b>Board</b>	Syncgen
<b>Spec</b>	A=B +/- 10%
<b>TP</b>	TP3203 (RSC) TP3204 (SHP)
<b>Adjust</b>	VR3201 (S/H PULSE NTSC) VR3203 (S/H PULSE PAL)
<b>Input</b>	REF IN / VIDEO IN 2 : 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Oscilloscope

#### <Adjustment for 525 mode>

1. Connect an Oscilloscope to TP3203 (RSC) and TP3204 (SHP) then adjust VR3201 so that the signal timing is within the specification.

#### <Adjustment for 625 mode>

2. Connect an Oscilloscope to TP3203 (RSC) and TP3204 (SHP), adjust VR3203 so that the signal timing is within the specification.



### 4-4-2. 14.3MHz VCO Adjustment (525 mode)

<b>Board</b>	Syncgen
<b>Spec</b>	14318180Hz +/- 5Hz
<b>TP</b>	TP3304 (FS)
<b>Adjust</b>	VC3301(FS PHASE NTSC)
<b>Input</b>	-----
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Frequency Counter

1. Disconnect REF IN signal.
2. Connect a Frequency counter to TP3304 then adjust VC3301 so that the frequency is within the specification.

### 4-4-3. 17.7MHz VCO Adjustment (625 mode)

<b>Board</b>	Syncgen
<b>Spec</b>	17734476Hz +/- 5Hz
<b>TP</b>	TP3304 (FS)
<b>Adjust</b>	VC3302 (FS PHASE PAL)
<b>Input</b>	-----
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Frequency Counter

1. Disconnect REF IN signal.
2. Connect a Frequency Counter to TP3304 then adjust VC3302 so that the Frequency is within the specification.

### 4-4-4. CF DET Adjustment (525/625 mode)

<b>Board</b>	Syncgen
<b>Spec</b>	A = B +/- 10%
<b>TP</b>	TP3101 (TP1) TP3102 (TP2)
<b>Adjust</b>	VR3202 (CF DET NTSC) VR3204 (CF DET PAL)
<b>Input</b>	REF IN / VIDEO IN 2 : 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Oscilloscope

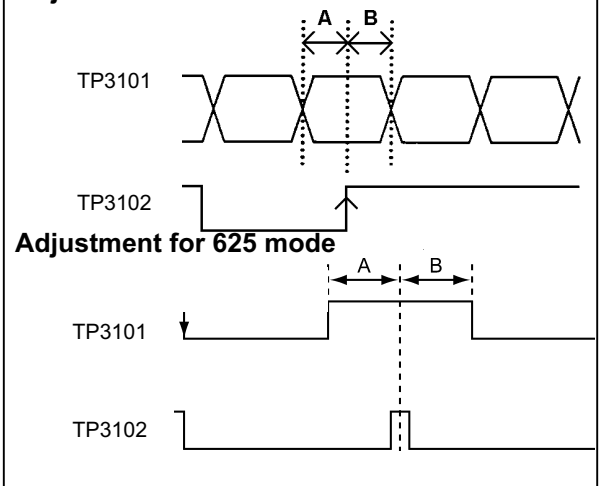
#### <Adjustment for 525 mode>

1. Connect an Oscilloscope to TP3102 and TP3101 then adjust VR3202 so that the signal timing is within the specification.

#### <Adjustment for 625 mode>

2. Connect an Oscilloscope to TP3101 and TP3102 then adjust VR3204 so that the Signal timing is within the specification.

#### Adjustment for 525 mode



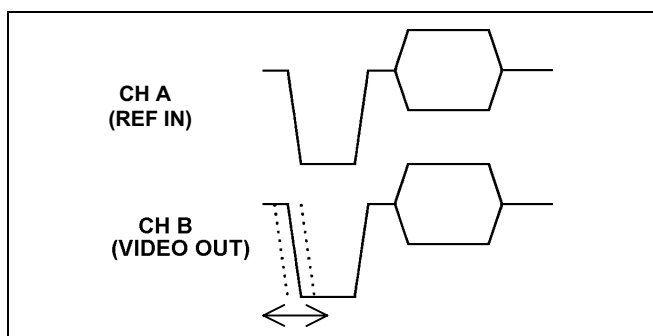


#### 4-4-5. System H Phase Adjustment (525/625 mode)

<b>Board</b>	Syncgen
<b>Spec</b>	SCH : 0 +/- 1 degrees WFM: same timing CH A with CH B
<b>TP</b>	REF IN VIDEO/Y OUT 2
<b>Adjust</b>	I15:N_SYS_SC (525 mode) VR3402 (525 mode) I16:N_H_PHASE (525 mode) VR3101 (525 mode) I19:P_SYS_SC (625 mode) VR3401 (625 mode) I20:P_H_PHASE (625 mode) VR3102 (625 mode)
<b>Input</b>	REF IN, VIDEO IN 2: 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	WFM, SCH meter

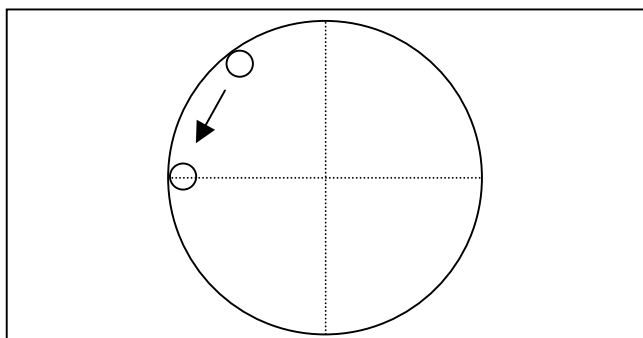
##### <Adjustment for 525 mode>

1. Open the SERVICE MENU and press the "VTR2 button".
2. Adjust I16: N\_H\_PHASE so that CH B sync position meet it of CH A on WFM.
3. If it does not meet by EVR, adjust VR3101 so that the phase in specification.



**NOTE :** Set WFM to EXT REF mode.

4. Adjust I15: N\_SYS\_SC so that the system H phase match on SCH meter.
5. Adjust I15: N\_SYS\_SC so that CH A and CH B meet together on SCH meter.
6. If phase can not be in specification by EVR, adjust VR3101.



##### <Adjustment for 625 mode>

7. Open the SERVICE MENU and press the "VTR2 button".
8. Adjust I20: P\_H\_PHASE so that CH B sync position meet it of CH A on WFM.
9. If it does not meet by EVR, adjust VR3102.
10. Adjust I19: P\_SYS\_SC so that the system H phase match on SCH meter.
11. If phase can not be in specification by EVR, adjust VR3401.

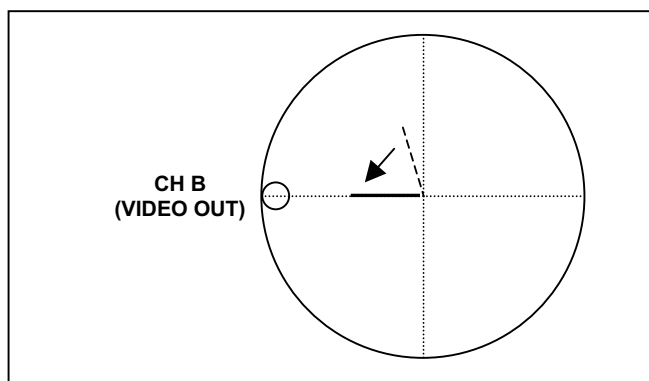


#### 4-4-6. Burst Phase Adjustment (525/625 mode)

<b>Board</b>	Digital2, Encoder VR
<b>Spec</b>	0 +/- 2 degrees
<b>TP</b>	REF IN VIDEO/Y OUT 2
<b>Adjust</b>	I14 : N_SCH (525 mode) B35 : ATFGL (525 mode) I18 : P_SCH (625 mode)
<b>Input</b>	REF IN, VIDEO IN 2: 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	SCH meter

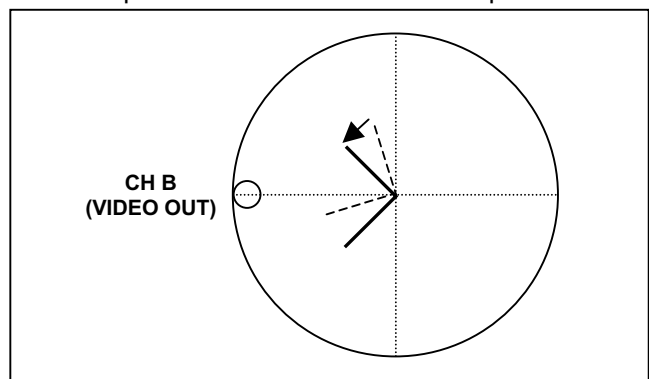
##### <Adjustment for 525 mode>

1. Open the Service menu and adjust B35: ATFGL so that the burst phase of VIDEO/Y OUT 2 (burst phase is changed 90 degrees each) come close to 0 degrees on SCH meter.
2. Adjust I14: N\_SCH so that the VIDEO/Y OUT 2 burst phase to REF IN is within the specification.



##### <Adjustment for 625 mode>

3. Set the SCH COARSE SW [Encoder VR P.C.B] so that the burst phase of VIDEO/Y OUT 2 (burst phase is changed 90 degrees each) come close to +/- 135 degrees on SCH meter.
4. Adjust I18: P\_SCH so that the VIDEO/Y OUT 2 burst phase to REF IN is within the specification.



**NOTE:** Set SCH meter to EXT REF mode.

#### 4-4-7. Video Position Adjustment (525/625 mode)

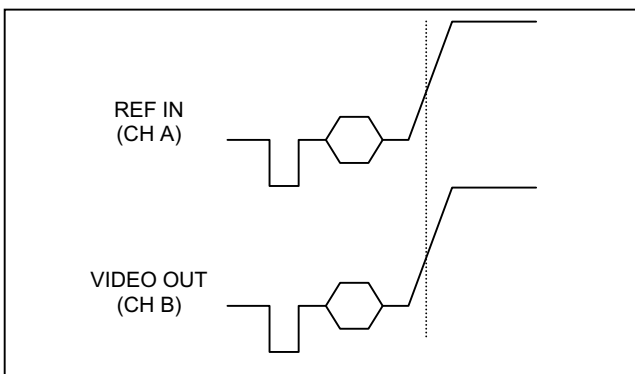
<b>Board</b>	Digital2
<b>Spec</b>	WFM: CH A and CH B same timing
<b>TP</b>	REF IN VIDEO/Y OUT 2
<b>Adjust</b>	I17 : N_VIDEO POS (525 mode) I21 : P_VIDEO POS (625 mode)
<b>Input</b>	REF IN : 100% colour bar
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3580KM or KL : Colour bar VFM3680KM or KL : Colour bar
<b>M.EQ</b>	WFM

##### <Adjustment for 525 mode>

1. Input 100% Colour Bar signal to REF IN connector.
2. Play Alignment tape. (VFM3580KM or KL)
3. Adjust I17: N\_VIDEO POS so that the CH A and CH B Colour bar signal start timing meet together.

##### <Adjustment for 625 mode>

4. Input 100% Colour Bar signal to REF IN connector.
5. Play Alignment tape. (VFM3680KM or KL)
6. Adjust I21: P\_VIDEO POS so that the CH A and CH B Colour bar signal start timing meet together.





# 5. AUDIO/VIDEO

## 5-1.Audio Section

### Preparation

1. Set the SW on Unit as follows.

#### [The Bottom of Counter display]

OPERATION MODE	:	EXT
V2 VIDEO IN	:	ANALOG
CONTROL	:	LOCAL
ANALOG AUDIO IN	:	V2 (4CH)
ANALOG AUDIO OUT	:	V2 (4CH)

#### [Main Control Panel]

V2 INPUT SELECT SW	:	ANALOG (All 4 Channels)
V2 INPUT SELECT VR CH1	:	1
V2 INPUT SELECT VR CH2	:	2
V2 INPUT SELECT VR CH3	:	3
V2 INPUT SELECT VR CH4	:	4
AUDIO MONITOR SELECT SW	:	V2
AUDIO MONITOR SELECT SW [L(V1)]	:	CH 1
AUDIO MONITOR SELECT SW [R(V2)]	:	CH 2
V1, V2 REC VR	:	Click point
V2 PB VR	:	Click point

2. Open the SETUP MENU (SHIFT + 7 button) and Set as follows.

701-709	CH1-CH4 IN LEV	:	0dB
714	EMPHASIS	:	OFF
726	REC CUE	:	CH1 + 2
731	CUE OUT SEL	:	OFF
772	AUDIO MONI	:	V1 + V2

3. Set the SW on these P.C.Board as follows.

#### AUDIO/VIDEO P.C.Board

SW 45101(CH1)	:	High
SW45102 (CH2)	:	High
SW 40101 (CH3)	:	High
SW 40102 (CH4)	:	High

#### REAR JACK P.C.Board

LINE / MIC select SW	:	LINE
----------------------	---	------

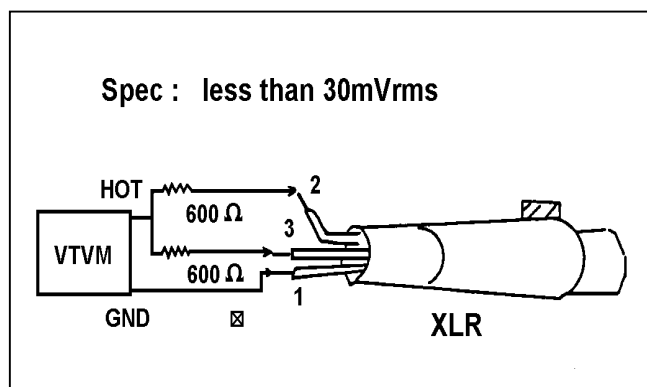


### 5-1-1. Output Balance Adjustment

<b>Board</b>	AUDIO/VIDEO, AV IO, AV SUB
<b>Spec</b>	Less than 30mVrms
<b>TP</b>	LINE OUT (CH1 / CH2 / CH3 / CH4), AUDIO MON OUT (L Ch / R Ch)
<b>Adjust</b>	VR46001 (CH1) [AUDIO/VIDEO] VR46002 (CH2) [AUDIO/VIDEO] VR41001 (CH3) [AV SUB] VR41002 (CH4) [AV SUB] VR42101 (L CH) [AV IO] VR42102 (R CH) [AV IO]
<b>Input</b>	INTERNAL TEST TONE (1kHz)
<b>Mode</b>	EJECT
<b>Tape</b>	-----
<b>M.EQ</b>	VTVM

1. Make the following tool to measure the output balance.
2. Set the SERVICE MENU "I08: INT SG" to ON.
3. Connect the following tool to the each output, and adjust the each VR so that the signal level is within specification.

**NOTE:** Perform output balance adjustment before the Output level adjustment.



### 5-1-2. Output Level Adjustment

<b>Board</b>	AUDIO/VIDEO
<b>Spec</b>	LINE OUT : +4dBm +/- 0.2dB AUDIO MON OUT : 0dBu +/- 0.2dB
<b>TP</b>	LINE OUT (CH1 / CH2 / CH3 / CH4) AUDIO MON OUT (L Ch / R Ch)
<b>Adjust</b>	VR45201 (CH1), VR45202 (CH2), VR40201 (CH3), VR40202 (CH4) VR41101 (R Ch), VR41201 (L Ch)
<b>Input</b>	-----
<b>Mode</b>	EJECT
<b>Tape</b>	INTERNAL TEST TONE (1kHz)
<b>M.EQ</b>	VTVM

1. Set the MENU at the VTR2 side as shown below.  
SETUP MENU  
012 SYS FORMAT : 50M  
SERVICE MENU  
I08: INT SG : ON

2. Set the PB VR to Click point.
3. Adjust VR45201 so that the LINE OUT (CH1) level is within the specification.
4. Adjust VR45202 so that the LINE OUT (CH2) level is within the specification.
5. Adjust VR40201 so that the LINE OUT (CH3) level is within the specification.
6. Adjust VR40202 so that the LINE OUT (CH4) level is within the specification.
7. Adjust VR41101 so that the AUDIO MON OUT (L CH) level is within the specification.
8. Adjust VR41201 so that the AUDIO MON OUT (R CH) level is within the specification.

### 5-1-3. CUE PB Level Adjustment

VTR	VTR1	VTR2
<b>Board</b>	AUDIO/VIDEO	
<b>Spec</b>	-12dBu +/- 0.5dB	-12dBu +/- 1.0dB
<b>TP</b>	TP40501	TP45501
<b>Adjust</b>	VR40505 (V1 CUE PB)	VR45505 (V2 CUE PB)
<b>Input</b>	-----	
<b>Mode</b>	PLAY	
<b>Tape</b>	VFM3580KM or KL (NTSC) : 1KHz 0Vu VFM3680KM or KL (PAL) : 1KHz 0Vu	
<b>M.EQ</b>	VTVM	

1. Set the Menu and Front SW as shown below.  
<Menu>  
ANALOG AUDIO IN : V1, V2 (2CH)  
ANALOG AUDIO OUT : V1, V2 (2CH)

<SW>  
013 PB FORMAT : AUTO

2. Play the Alignment tape.
3. Adjust VR40505 so that TP40501 level is within the specification.
4. Adjust VR45505 so that TP45501 level is within the specification.



#### 5-1-4. CUE Noise Cancel Adjustment (50M)

VTR	VTR1	VTR2
<b>Board</b>	AUDIO/VIDEO	
<b>Spec</b>	Less than -35dBu	
<b>TP</b>	VTR1 MON OUT (L Ch)	VTR2 MON OUT (R Ch)
<b>Adjust</b>	VR40501(C_LV9) VR40503(C_PS9) VR40506(150 PBE)	VR45501(C_LV9) VR45503(C_PS9) VR45506(150 PBE)
<b>Input</b>	-----	
<b>Mode</b>	STILL	
<b>Tape</b>	Blank tape	
<b>M.EQ</b>	Audio analyzer	

1. Set the menu and Front SW (VTR1/VTR2) as shown bellow.

<Menu>

771 AUDIO SLOW : A-CUE  
012 SYS FORMAT : 50M  
013 PB FORMAT : MANUAL

<SW>

ANALOG AUDIO OUT SW : V1, V2 (2Ch)

##### <Adjustment for VTR1 side>

2. Set the AUDIO MONITOR SELECT SW to "V1" side.
3. Connect VTR1 MON OUT (L CH) to Audio analyzer and set Audio analyzer B.P.F frequency to 600Hz. Then insert Blank tape and press still button.
4. Adjust VR40501(Cancel level adjustment) and VR40503(Cancel phase adjustment)so that the signal noise level is within the specification. (Minimum)
5. Change Audio analyzer B.P.F Frequency to 150Hz, and adjust VR40506 so that the signal noise level is within the specification.

##### <Adjustment for VTR2 side>

6. Set the AUDIO MONITOR SELECT SW to "V2" side.
7. Connect VTR2 MON OUT (R CH) to Audio analyzer and set Audio analyzer B.P.F frequency to 600Hz. Then insert Blank tape and press still button.
8. Adjust VR45501(Cancel level adjustment) and VR45503(Cancel phase adjustment)so that the signal noise level is within the specification. (Minimum)
9. Change Audio analyzer B.P.F Frequency to 150Hz, and adjust VR45506 so that the signal noise level is within the specification.

#### 5-1-5. CUE Noise Cancel Adjustment (25M)

VTR	VTR1	VTR2
<b>Board</b>	AUDIO/VIDEO	
<b>Spec</b>	Less than -30dBu	
<b>TP</b>	VTR1 MON OUT (L Ch)	VTR2 MON OUT (R Ch)
<b>Adjust</b>	VR40502(C_LV4) VR40504(C_PS4)	VR45502(C_LV4) VR45504(C_PS4)
<b>Input</b>	-----	
<b>Mode</b>	STILL	
<b>Tape</b>	Blank tape	
<b>M.EQ</b>	TV Monitor, Audio analyzer	

1. Set the menu and Front SW (VTR1/VTR2) as shown bellow.

<Menu>

771 AUDIO SLOW : A-CUE  
012 SYS FORMAT : 25M  
013 PB FORMAT : MANUAL

<SW>

ANALOG AUDIO OUT SW : V1, V2 (2Ch)

##### <Adjustment for VTR1 side>

2. Set the AUDIO MONITOR SELECT SW to "V1" side.
3. Connect VTR1 MON OUT (L CH) to Audio analyzer and set Audio analyzer B.P.F frequency to 300Hz. Then insert Blank tape and press still button.
4. Adjust VR40502(Cancel level adjustment) and VR40504(Cancel phase adjustment)so that the signal noise level is within the specification. (Minimum)

##### <Adjustment for VTR2 side>

5. Set the AUDIO MONITOR SELECT SW to "V2" side.
6. Connect VTR2 MON OUT (R CH) to Audio analyzer and set Audio analyzer B.P.F frequency to 300Hz. Then insert Blank tape and press still button.
7. Adjust VR45502(Cancel level adjustment) and VR45504(Cancel phase adjustment)so that the signal noise level is within the specification. (Minimum)



### 5-1-6. CUE Bias Current Adjustment

VTR	VTR1	VTR2
Board	AUDIO/VIDEO	
Spec	7.0mVrms +/- 0.5mV	
TP	TP40401 TP40402 (GND)	TP45401 TP45402 (GND)
Adjust	VR40402 (BIAS)	VR45402 (BIAS)
Input	-----	
Mode	REC, PLAY	
Tape	Blank tape	
M.EQ	VTVM	

#### <Adjustment for VTR1 side>

1. Record any signal by VTR1.
2. Connect a VTVM to TP40401-TP40402 (GND side). Then adjust VR40402 so that the signal level is within the specification.

#### <Adjustment for VTR2 side>

3. Record any signal by VTR2.
4. Connect a VTVM to TP45401-TP45402 (GND side). Then adjust VR45402 so that the signal level is within the specification.

**NOTE:** Set VTVM to FLAT mode.

### 5-1-7. CUE REC/PLAY Level Adjustment

VTR	VTR1	VTR2
Board	AUDIO/VIDEO	
Spec	-12dBu +/- 1.0 dB	
TP	TP40501 TP40403	TP45501 TP45403
Adjust	VR40401 (REC CURR)	VR45401 (REC CURR)
Input	LINE IN CH1 : 1KHz 4dBm LINE IN CH2 : 1KHz 4dBm	
Mode	REC, PLAY	
Tape	Blank tape	
M.EQ	VTVM, Audio analyzer	

1. Set the menu as shown below.  
012 SYS FORMAT : 50M

#### <Adjustment for VTR1 side>

2. Record any signal by VTR1.
3. Connect a VTVM to TP40403, adjust VR40401 so that the signal level is within the specification.
4. Connect a VTVM to TP40501.
5. Play recorded portion and Confirm TP40501 signal level is within the specification.

#### <Adjustment for VTR2 side>

6. Record any signal by VTR2.
7. Connect a VTVM to TP45403, adjust VR45401 so that the signal level is within the specification.
8. Connect a VTVM to TP45501.
9. Play recorded portion and confirm TP45501 signal level is within the specification.

### 5-1-8. BEEP Sound Adjustment

Board	AV IO
Spec	30mVrms +/- 1 mVrms
TP	TP42201, TP42202
Adjust	VR42201(FREQ), VR42202(LEVEL) SW42201
Input	-----
Mode	EJECT
Tape	-----
M.EQ	VTVM, Frequency counter

1. Set the SW42201 to OFF.
2. Connect a Frequency counter to TP42201. Then adjust VR42201 so that the frequency is 4.15KHz +/- 0.05KHz.
3. Connect a VTVM to TP42202. Then adjust VR42202 so that the signal level is within the specification.
4. Set the SW42201 to ON.



## 5-2.Video Section

### Preparation

- Set the menu item as follows. Without other instruction.

174 VTR1 IN SEL : V1\_IN  
622 SETUP 25 : THRU  
623 SETUP 50 : THRU

- Set the Encoder VRs as following. (Both VTR)  
VIDEO LEVEL : Center click position  
SETUP : Center click position  
HUE : Center click position  
CHROMA LEVEL : Center click position
- Perform adjustment, more than 10 minutes after turning power on.
- When use the alignment tape, set VTR 25M, 625 mode.
- Input to REF IN connector should be VIDEO IN signal or signal synchronized with VIDEO IN.

#### 5-2-1. Composite Setup Adjustment

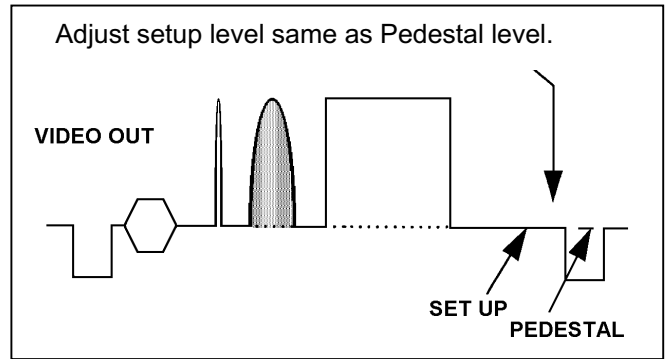
VTR	VTR1	VTR2
Board	Digital 1	Digital 2
Spec	A Level with B level is 0 +/- 0.5 IRE	
TP	VIDEO/Y OUT1	VIDEO/Y OUT2
Adjust	VR32502(SOFST_NT) VR32503(SOFST PAL)	VR33502(SOFST_NT) VR33503(SOFST PAL)
Input	-----	
Mode	EE	
Tape	-----	
M.EQ	WFM	

##### <Adjustment for 525 mode>

- Set "671: V OUT SEL" on the SETUP MENU to CMPST.
- Connect a WFM to VIDEO/Y OUT1. Then adjust VR32502 so that the signal setup level is same as pedestal level.
- Connect a WFM to VIDEO/Y OUT2. Then adjust VR33502 so that the signal setup level is same as pedestal level.

##### <Adjustment for 625 mode>

- Set "671: V OUT SEL" on the SETUP MENU to CMPST.
- Connect a WFM to VIDEO/Y OUT1. Then adjust VR32503 so that the signal setup level is same as pedestal level.
- Connect a WFM to VIDEO/Y OUT2. Then adjust VR33503 so that the signal setup level is same as pedestal level.

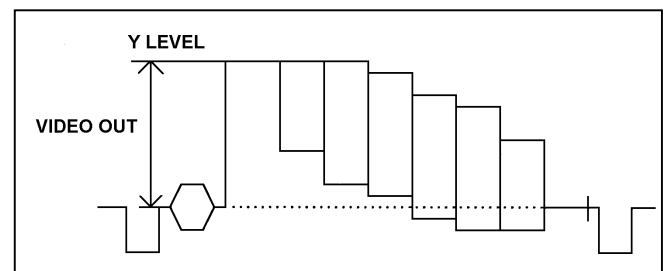


**NOTE:** As this signal has some carrier leak and noise etc, set the Y Filter switch of WFM to ON and magnify. Confirm setup VR is in click point.

#### 5-2-2. Composite Y Level Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	0.7V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR1201 (V1_CPS_LEV)	VR201 (V2_CPS_LEV)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

- Set "671: V OUT SEL" on the SETUP MENU to CMPST.
- Connect a WFM to VIDEO/Y OUT 1. Then adjust VR 1201 so that the signal level is within the specification.
- Connect a WFM to VIDEO/Y OUT 2. Then adjust VR201 so that the signal level is within the specification.

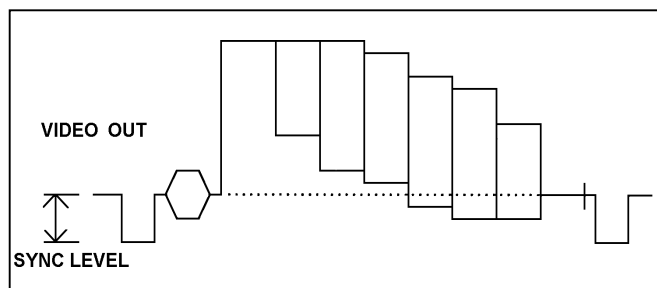




### 5-2-3. Sync Level Adjustment

VTR	VTR1	VTR2
Board	Digital 1	Digital 2
Spec	0.3V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR32501 (SYNC_LVL)	VR33501 (SYNC_LVL)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

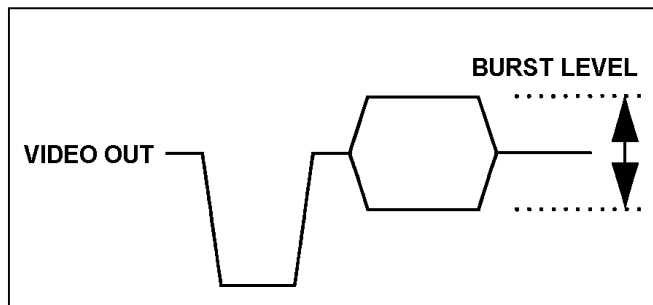
1. Set "671: V OUT SEL" on the SERVICE MENU to CMPST.
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR32501 so that the sync level is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR33501 so that the sync level is within the specification.



### 5-2-4. Burst Level Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	40IRE +/- 1IRE	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR1202 (V1_CPS_FRQ)	VR202 (V2_CPS_FRQ)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

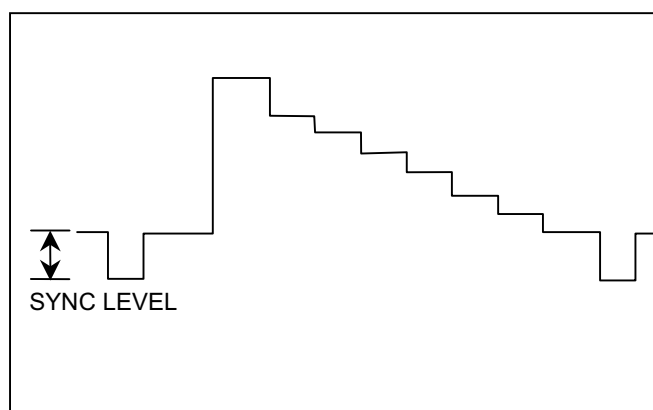
1. Set "671: V OUT SEL" on the SERVICE MENU to CMPST.
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR1202 so that the burst level is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR202 so that the burst level is within the specification.



### 5-2-5. Component Sync Level Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	0.3V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR1204 (V1_SYNC_LEV)	VR204 (V2_SYNC_LEV)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR1204 so that the sync level is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR204 so that the sync level is within the specification.

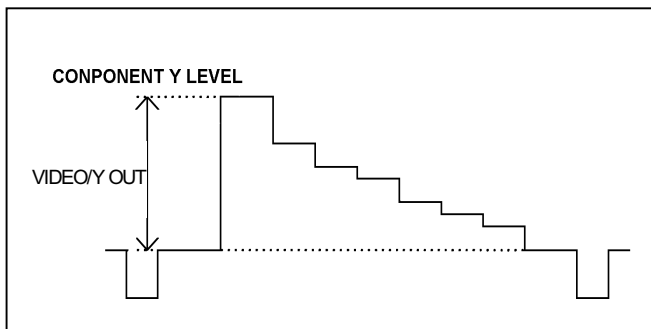




## 5-2-6. Component Y Level Adjustment

VTR	VTR1	VTR2
Board	Digital 1	Digital 2
Spec	0.714V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR32701(Y_LEV)	VR33701(Y_LEV)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR32701 so that the signal level is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR33701 so that the signal level is within the specification.



## 5-2-7. Component Pb,Pr Level Adjustment

VTR	VTR1	VTR2
Board	Digital 1	Digital 2
Spec	0.7V +/- 1%	
TP	PB OUT 1	PB OUT 2
Adjust	VR32703(PB_LEV) VR32702(PR_LEV)	VR33703(PB_LEV) VR33702(PR_LEV)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

### <Pb Adjustment>

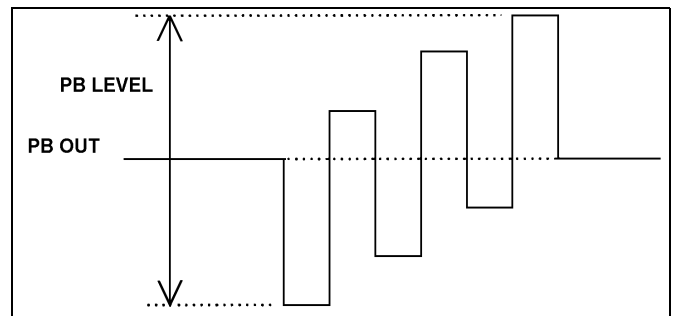
1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to PB OUT 1. Then adjust VR32703 so that the signal level is within the specification.

specification.

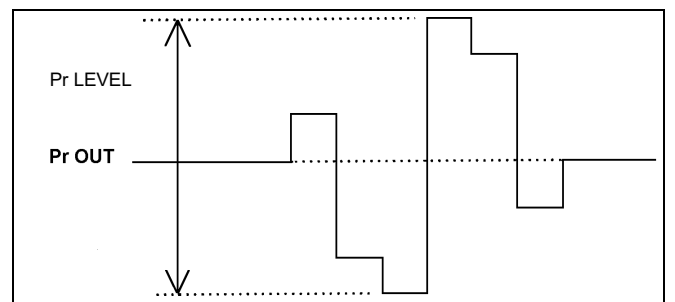
3. Connect a WFM to PB OUT 2, adjust VR33703 so that the signal level is within the specification.

### <Pr Adjustment>

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to Pr OUT 1. Then adjust VR32702 so that the signal level is within the specification.



3. Connect a WFM to Pr OUT 2. Then adjust VR33702 so that the signal level is within the specification.

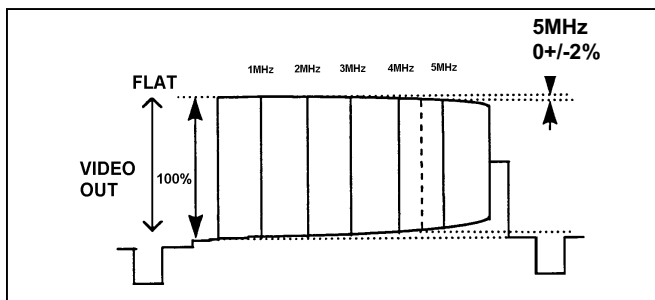




### 5-2-8. Component Frequency Response Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	5MHz portion is 0 +/- 2%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR1203 (V1_CPN_FRQ)	VR203 (V2_CPN_FRQ)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: H Sweep	
M.EQ	WFM	

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR1203 so that the signal frequency response is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR203 so that the signal frequency response is within the specification.



### 5-2-9. Component Y-Pb,Y-Pr Timing Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	0+/-10ns	
TP	VIDEO/Y OUT 1 PB OUT 1 PR OUT 1	VIDEO/Y OUT 2 PB OUT 2 PR OUT 2
Adjust	VR1402(V1_BY_DLY) VR1401(V1_RY_DLY)	VR402(V2_BY_DLY) VR401(V2_RY_DLY)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Bow tie	
M.EQ	WFM	

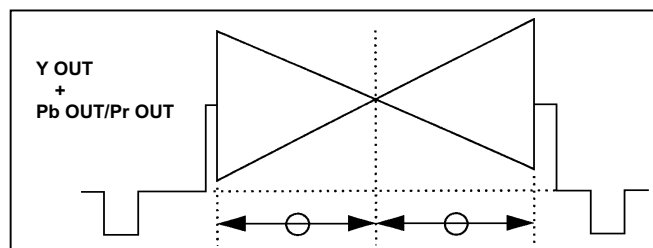
1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT

#### <Y-Pb Adjustment>

2. Connect a WFM to VIDEO/Y OUT 1, PB OUT 1 and then set the WFM to Component Y/C measurement mode. Then adjust VR1402 so that the signal timing is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2, PB OUT 2 and then set the WFM to Component Y/C measurement mode. Then adjust VR402 so that the signal timing is within the specification.

#### <Y-Pr Adjustment>

4. Connect a WFM to VIDEO/Y OUT 1, PR OUT 1 and then set the WFM to Component Y/C measurement mode. Then adjust VR1401 so that the signal timing is within the specification.
5. Connect a WFM to VIDEO/Y OUT 2, PR OUT 2 and then set the WFM to Component Y/C measurement mode. Then adjust VR401 so that the signal timing is within the specification.





### 5-2-10. 13.5MHz PLL Offset Adjustment

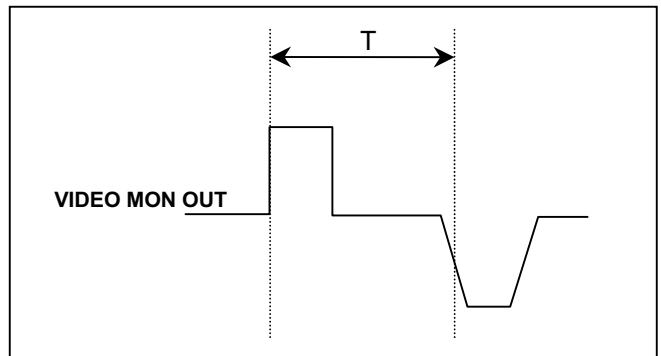
VTR	VTR1	VTR2
Board	AUDIO/VIDEO	
Spec	0 +/- 0.1V	
TP	TP3803(V1_ERR)	TP7803(V2_ERR)
Adjust	FL3803 (V1_PLL_OFS)	FL7803 (V2_PLL_OFS)
Input	VIDEO/Y IN 1 : 100% color bar	VIDEO/Y IN 2 : 100% color bar
Mode	EE	
Tape	-----	
M.EQ	Oscilloscope	

- Set SETUP MENU as shown below.  
670 : V IN SEL : CMPST
- Connect an Oscilloscope to TP3803. Then adjust the FL3803 so that the DC level is within the specification.
- Connect an Oscilloscope to TP7803. Then adjust the FL7803 so that the DC level is within the specification.

### 5-2-11. OSD Character Position adjustment

VTR	VTR1	VTR2
Board	AUDIO/VIDEO	
Spec	T = 5.0μsec +/- 0.2μsec	
TP	VIDEO MON OUT 1	VIDEO MON OUT 2
Adjust	VC3901(V1_CHAR)	VC3902(V2_CHAR)
Input	VIDEO/Y IN 1 : 50% Flatfield	VIDEO/Y IN 2 : 50% Flatfield
Mode	EE	
Tape	-----	
M.EQ	WFM	

- Set SETUP MENU and Front SW as shown below.  
【Front SW】  
ON SCREEN : ON (Display Mode)  
【Items of Menu】  
011 : CHA TYPE : WHITE  
670 : V IN SEL : CMPNT
- Connect a WFM to VIDEO MON OUT 1. Then adjust the VC3901 so that the timing between falling edge of sync and the last character area is within the specification.
- Connect a WFM to VIDEO MON OUT 2. Then adjust the VC3902 so that the timing between falling edge of sync and the last character area is within the specification.



### 5-2-12. OSD DC Level Adjustment

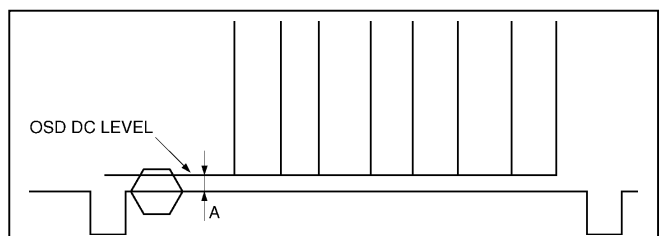
VTR	VTR1	VTR2
Board	AUDIO/VIDEO	
Spec	A = +21 / -0mV	
TP	VIDEO MON OUT 1	VIDEO MON OUT 2
Adjust	H01:CPS BLK DC	H01:CPS BLK DC
Input	-----	-----
Mode	EE	
Tape	-----	
M.EQ	Oscilloscope	

#### <Adjustment for VTR1 side>

- Connect an Oscilloscope to VIDEO MON OUT 1 and open the SERVICE MENU.
- Adjust the H01: CPS BLK DC so that OSD signals black level to signal pedestal level is within the specification.

#### <Adjustment for VTR2 side>

- Connect an Oscilloscope to VIDEO MON OUT 2 and open the SERVICE MENU.
- Adjust the H01: CPS BLK DC so that OSD signals black level to signal pedestal level is within the specification.





### 5-2-13. AD Y, Pb, Pr Clamp Level Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	A = +/- 5mV	
TP	VIDEO/Y OUT 1 PB OUT 1 PR OUT 1	VIDEO/Y OUT 2 PB OUT 2 PR OUT 2
Adjust	H07:YCLAMP DC [Y] H03:REC PR BAL [PR] H04:REC PB BAL [PB]	
Input	VIDEO/Y IN 1, PB IN1, PR IN1: 0% Flatfield	VIDEO/Y IN 2, PB IN2, PR IN2: 0% Flatfield
Mode	EE	
Tape	-----	
M.EQ	WFM	

- Set SETUP MENU as shown below.  
670 : V IN SEL : CMPNT  
671 : V OUT SEL : CMPNT

#### <Adjustment for VTR1 side>

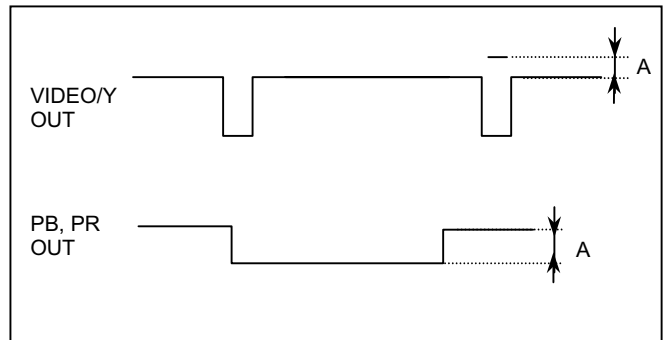
- Connect a WFM to VIDEO/Y OUT 1. Then adjust the H07 : Y CLAMP DC so that the signal pedestal level A is within the specification.
- Connect a WFM to PB OUT 1. Then adjust the H04 : REC PB BAL so that the signal pedestal level A is within the specification.
- Connect a WFM to PR OUT 1. Then adjust the H03 : REC PR BAL so that the signal pedestal level A is within the specification.

#### <Adjustment for VTR2 side>

- Connect a WFM to VIDEO/Y OUT 2. Then adjust the H07 : Y CLAMP DC so that the signal pedestal level A is within the specification.
- Connect a WFM to PB OUT 2. Then adjust the H04 : REC PB BAL so that the signal pedestal level A is within the specification.
- Connect a WFM to PR OUT 2. Then adjust the H03 : REC PR BAL so that the signal pedestal level A is within the specification.

**NOTE:** If any of above does not meet specification with EVR, adjust it with following VRs.

VTR1	VR3602 [V1_Y_CLAMP_DC]
	VR3704 [V1_PB_CLAMP_DC]
	VR3703 [V1_PR_CLAMP_DC]
VTR2	VR7602 [V2_Y_CLAMP_DC]
	VR7704 [V2_PB_CLAMP_DC]
	VR7703 [V2_PR_CLAMP_DC]

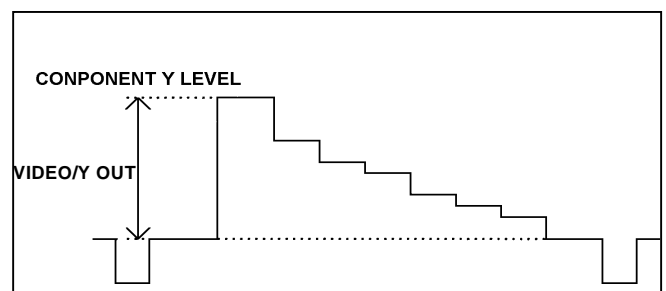


**NOTE:** As this signal has some carrier leak and noise etc, set the Y Filter switch of WFM to ON and magnify.

### 5-2-14. REC Component Y Level Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	0.7V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR3601 (V1_CPN_Y_LEV)	VR7601 (V1_CPN_Y_LEV)
Input	VIDEO/Y IN 1, PB IN1, PR IN1: 100% color bar	VIDEO/Y IN 2, PB IN2, PR IN2: 100% color bar
Mode	EE	
Tape	-----	
M.EQ	WFM	

- Set SETUP MENU as shown below.  
670 : V IN SEL : CMPNT  
671 : V OUT SEL : CMPNT
- Connect a WFM to VIDEO/Y OUT 1. Then adjust VR3601 so that the signal level is within the specification.
- Connect a WFM to VIDEO/Y OUT 2. Then adjust VR7601 so that the signal level is within the specification.





## 5-2-15. REC Component Pb,Pr Level Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	0.7V +/- 1%	
TP	PB OUT 1 PR OUT 1	PB OUT 2 PR OUT 2
Adjust	VR3702 (CPN PB LEV) VR3701 (CPN PR LEV)	VR7702 (CPN PB LEV) VR7701 (CPN PR LEV)
Input	VIDEO/Y IN 1, PB IN1, PR IN1: 100% color bar	VIDEO/Y IN 2, PB IN2, PR IN2: 100% color bar
Mode	EE	
Tape	-----	
M.EQ	WFM	

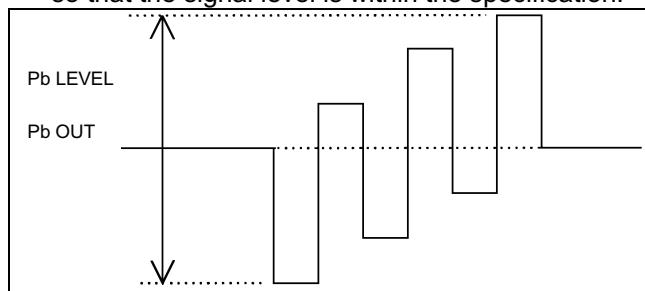
- Set SETUP MENU as shown below.

670 : V IN SEL : CMPNT

671 : V OUT SEL : CMPNT

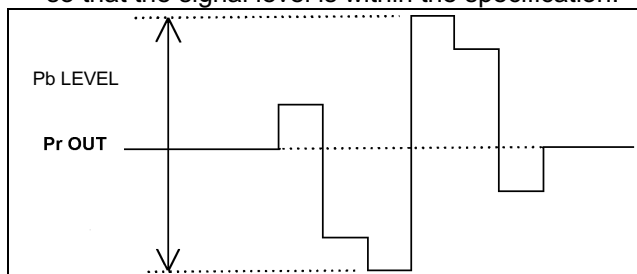
### <Pb Adjustment>

- Connect a WFM to PB OUT 1. Then adjust VR3702 so that the signal level is within the specification.
- Connect a WFM to PB OUT 2. Then adjust VR7702 so that the signal level is within the specification.



### <Pr Adjustment>

- Connect a WFM to PR OUT 1. Then adjust VR3701 so that the signal level is within the specification.
- Connect a WFM to PR OUT 2. Then adjust VR7701 so that the signal level is within the specification.



## 5-2-16. REC Component Y-Pb, Y-Pr Timing Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	0+/-10ns	
TP	VIDEO/Y OUT 1 PB OUT 1	VIDEO/Y OUT 2 PB OUT 2
Adjust	VR3305(V1 PB TMG) VR3306(V1 PR TMG)	VR7305(V2 PB TMG) VR7306(V2 PR TMG)
Input	VIDEO/Y IN 1, PB IN1, PR IN1: CMPNT BOWTIE	VIDEO/Y IN 2, PB IN2, PR IN2: CMPNT BOWTIE
Mode	EE	
Tape	-----	
M.EQ	WFM	

- Set SETUP MENU as shown below.

671 : V OUT SEL : CMPNT

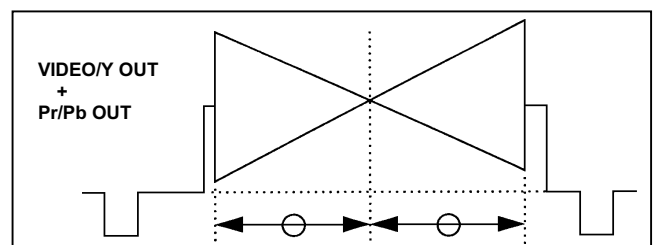
670 : V IN SEL : CMPNT

### <Y-Pb Adjustment>

- Connect a WFM to VIDEO/Y OUT 1 and PB OUT 1 (component Y/C timing measurement Mode) . Then adjust VR3305 so that the signal timing is within the specification.
- Connect a WFM to VIDEO/Y OUT 2 and PB OUT 2 (component Y/C timing measurement Mode) . Then adjust VR7305 so that the signal timing is within the specification.

### <Y-Pr Adjustment>

- Connect a WFM to VIDEO/Y OUT 1 and Pr OUT 1 (component Y/C timing measurement Mode) . Then adjust VR3306 so that the signal timing is within the specification.
- Connect a WFM to VIDEO/Y OUT 2 and Pr OUT 2 (component Y/C timing measurement Mode) . Then adjust VR7306 so that the signal timing is within the specification.

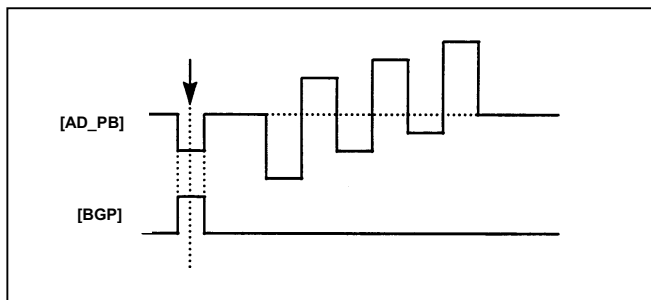




## 5-2-17. RSTW Adjustment

<b>Board</b>	AUDIO_VIDEO	
<b>Spec</b>	0+/-100ns	
<b>TP</b>	VTR1	VTR2
	TP3401 (V1_BGP) TP3702 (AD_PB)	TP7401 (V2_BGP) TP7702 (AD_PB)
<b>Adjust</b>	VR3401 (RSTW)	VR7401 (RSTW)
<b>Input</b>	VIDEO/Y IN 1: 100% color bar	VIDEO/Y IN 2: 100% color bar
<b>Mode</b>	EE	
<b>Tape</b>	-----	
<b>M.EQ</b>	Oscilloscope	

1. Set SETUP MENU as shown below.  
670 : V IN SEL : CMPST
2. Connect an Oscilloscope to TP3702 [PB] and TP3401 [BGP]. Then adjust VR3401 so that the signal timing is within the specification.
3. Connect an Oscilloscope to TP7702 [PB] and TP7401 [BGP]. Then adjust VR7401 so that the signal timing is within the specification.

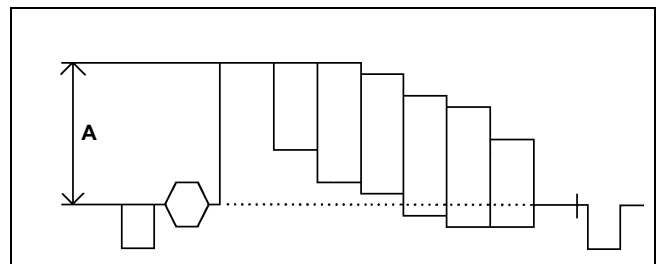


**NOTE:** When these signals aren't synchronized, adjust VR3403 (VTR1) and VR7403 (VTR2) to be synchronized.

## 5-2-18. REC Composite Y Input Level Adjustment

<b>VTR</b>	VTR1	VTR2
<b>Board</b>	AV SUB	AUDIO_VIDEO
<b>Spec</b>	A = 0.7V +/- 1%	
<b>TP</b>	VIDEO/Y OUT 1	VIDEO/Y OUT 2
<b>Adjust</b>	H08 : CPS Y LEV	
<b>Input</b>	VIDEO/Y IN 1: 100% color bar	VIDEO/Y IN 2: 100% color bar
<b>Mode</b>	EE	
<b>Tape</b>	-----	
<b>M.EQ</b>	WFM	

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPST  
670 : V IN SEL : CMPST
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust the H08 : CPS LEV so that the signal level A is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust the H08 : CPS LEV so that the signal level A is within the specification.





## 5-2-19. Chroma Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	As shown below	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	H10 : AXIS, H09 : CPS C LEV	
Input	VIDEO/Y IN 1: 100% color bar	VIDEO/Y IN 2: 100% color bar
Mode	EE	
Tape	-----	
M.EQ	Vector scope	

- Set SETUP MENU and Encoder VRs as shown below.

[MENU]

671 : V OUT SEL : CMPST

670 : V IN SEL : CMPST

[Encoder VRs]

VIDEO LEV : Click point

HUE : Click point

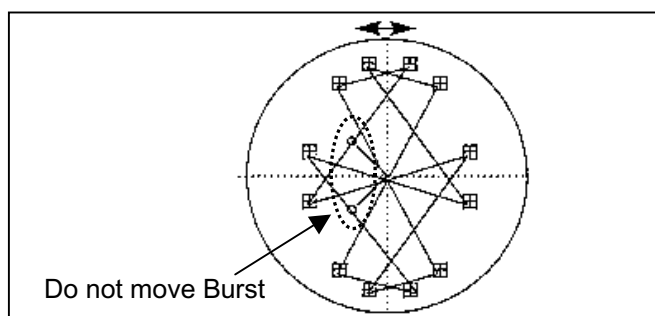
CHROMA LEV : Click point

### <Adjustment for VTR1 side>

- Open the VIDEO ADJUST MENU in SERVICE MENU.
- Connect a Vector scope to VIDEO/Y OUT 1. Then adjust the H10 : AXIS, H09 : CPS C LEV so that the dots is within the each inner boxes.
- If it does not meet specification by VIDEO ADJUST MENU, adjust VRs as follows.  
VR3403 (AXIS) [AUDIO VIDEO Board]  
VR3301 (DEC PB LEV)  
VR3302 (DEC PR LEV)

### <Adjustment for VTR2 side>

- Open the VIDEO ADJUST MENU in SERVICE MENU.
- Connect a Vector scope to VIDEO/Y OUT 1. Then adjust the H10 : AXIS, H09 : CPS C LEV so that the dots is within the each inner boxes.
- If it does not meet specification by VIDEO ADJUST MENU, adjust VRs as follows.  
VR7403 (AXIS) [AUDIO VIDEO Board]  
VR7301 (DEC PB LEV)  
VR7302 (DEC PR LEV)



## 5-2-20. Y Signal Timing Adjustment

VTR	VTR1	VTR2
Board	AUDIO_VIDEO	
Spec	A = Ref +/- 10nsec	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR3801(V1 SYNC 0)	VR7801(V2 SYNC 0)
Input	VIDEO/Y IN 1: 12.5T Pulse & Bar	VIDEO/Y IN 2: 12.5T Pulse & Bar
Mode	EE	
Tape	-----	
M.EQ	Oscilloscope	

- Set SETUP MENU and Encoder VRs as shown below.

671 : V OUT SEL : CMPST

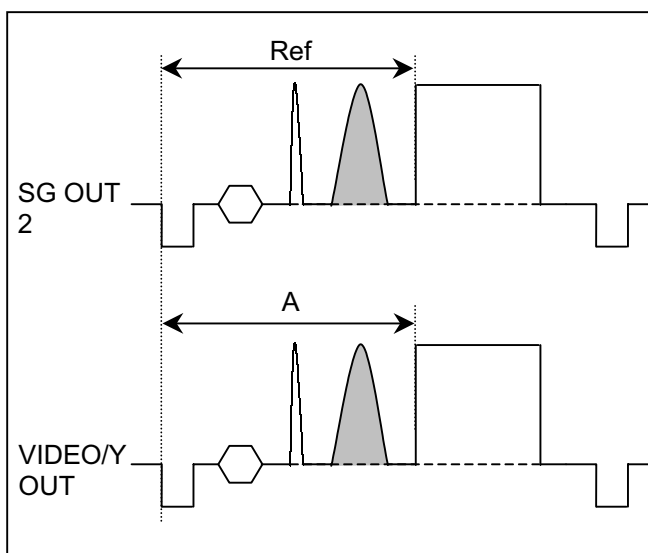
670 : V IN SEL : CMPST

### <Adjustment for VTR1 side>

- Connect Signal Generator out 1 to VIDEO/Y IN1.
- Connect Oscilloscope to VIDEO/Y OUT1 and Signal generator out 2.
- Adjust VR3801 so that the signal timing (A) is within the specification.

### <Adjustment for VTR2 side>

- Connect Signal Generator out 1 to VIDEO/Y IN2.
- Connect Oscilloscope to VIDEO/Y OUT2 and Signal generator out 2.
- Adjust VR7801 so that the signal timing (A) is within the specification.





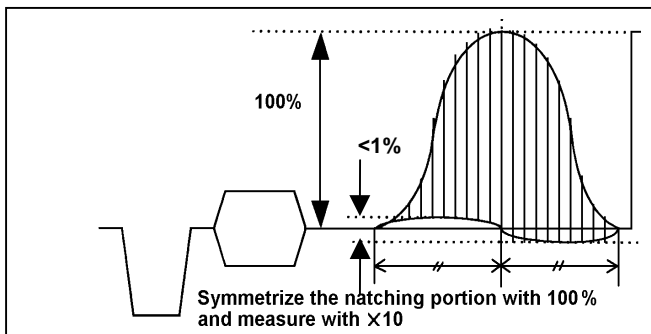
## 5-2-21. REC Composite Y/C Timing Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	0 +/- 10ns	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR3003 (V1_CPS_DELAY)	VR7002 (V1_CPS_DELAY)
Input	VIDEO/Y IN 1: 12.5T Pulse&bar	VIDEO/Y IN 2: 12.5T Pulse&bar
Mode	EE	
Tape	-----	
M.EQ	WFM	

1. Open the VIDEO ADJUST MENU in SERVICE MENU.

671 : V OUT SEL : CMPST  
670 : V IN SEL : CMPST

2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR3003 so that the signal timing is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR7002 so that the signal timing is within the specification.



**NOTE:** Confirm the Chroma adjustment after this adjustment.



## 6. LCD PANEL

### Preparation

1. Before this adjustment, The Video section adjustment must be completed.
2. The Encoder VRs (VIDEO LEV, SET UP, HUE and CHROMA LEV) must be in center Click position. (Both VTR side)
3. Perform LCD PANEL adjustment, more than 30 minutes after turning power ON.
4. Set the SW and VR as follows.  
 BACKLIGHT : LIGHT  
 BRIGHTNESS : Center position

### 6-1. OSC Frequency Adjustment

<b>Board</b>	Display Control
<b>Spec</b>	102kHz +/- 2kHz
<b>TP</b>	TP68301 TP68304 (GND)
<b>Adjust</b>	VR68301
<b>Input</b>	-----
<b>Mode</b>	EJECT
<b>Tape</b>	-----
<b>M.EQ</b>	Frequency counter

1. Connect a Frequency counter to TP68301-TP68304. Then adjust VR68301 so that the Frequency is within the specification.

### 6-2. Picture Adjustment

<b>Board</b>	-----
<b>Spec</b>	-----
<b>TP</b>	LCD PANEL (Visual observation)
<b>Adjust</b>	I10 : LCD DIM I11 : LCD COLOR I12 : HUE
<b>Input</b>	COLOUR BAR, MOVING PICTURE
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM
<b>M.EQ</b>	-----

1. Adjust the service menu "I10, I11 and I12" so that the picture condition on VTR1 and VTR2 is same condition.

**NOTE:** LCD Panel has the angle of the view. For the adjustment, look it from the front.

### 6-3. White Balance Adjustment

<b>Board</b>	LCD unit
<b>Spec</b>	-----
<b>TP</b>	LCD PANEL (Visual observation)
<b>Adjust</b>	R VR, B VR
<b>Input</b>	VIDEO/Y IN : 5 steps 50% Flat-field
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	-----

1. Adjust R VR and B VR so that the white balance on VTR1 and VTR2 is same condition.

**NOTE:** LCD Panel has the angle of the view. For the White balance adjustment, look it from the front.

### 6-4. Line Crawling Adjustment

<b>Board</b>	LCD unit
<b>Spec</b>	-----
<b>TP</b>	LCD PANEL (Visual observation)
<b>Adjust</b>	BURST VR
<b>Input</b>	COLOUR BAR
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM
<b>M.EQ</b>	-----

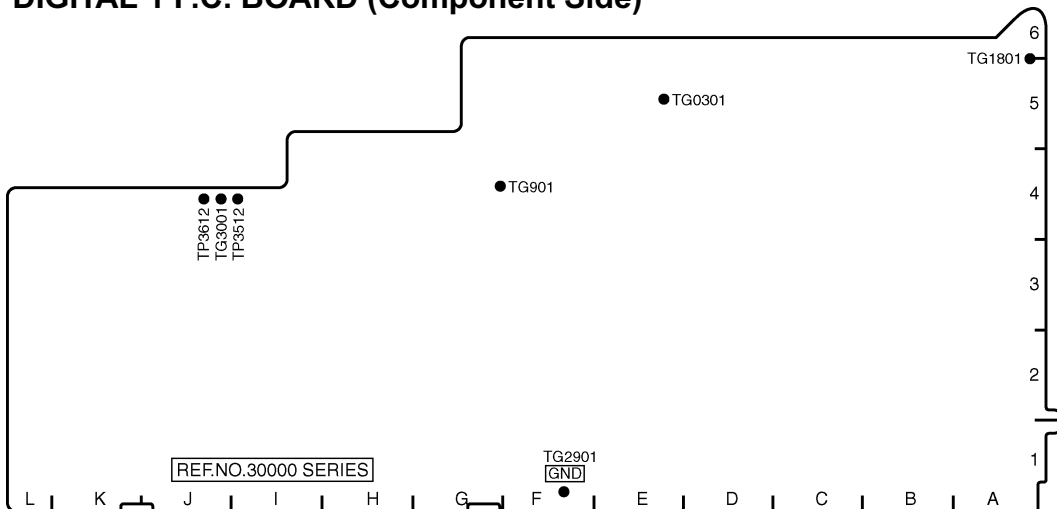
1. Adjust the "BURST VR" so that the Colour picture crawling (Horizontal line noise) becomes disappearing.

**NOTE:** LCD Panel has the corner of the view. In case of the adjustment that look it from the front.

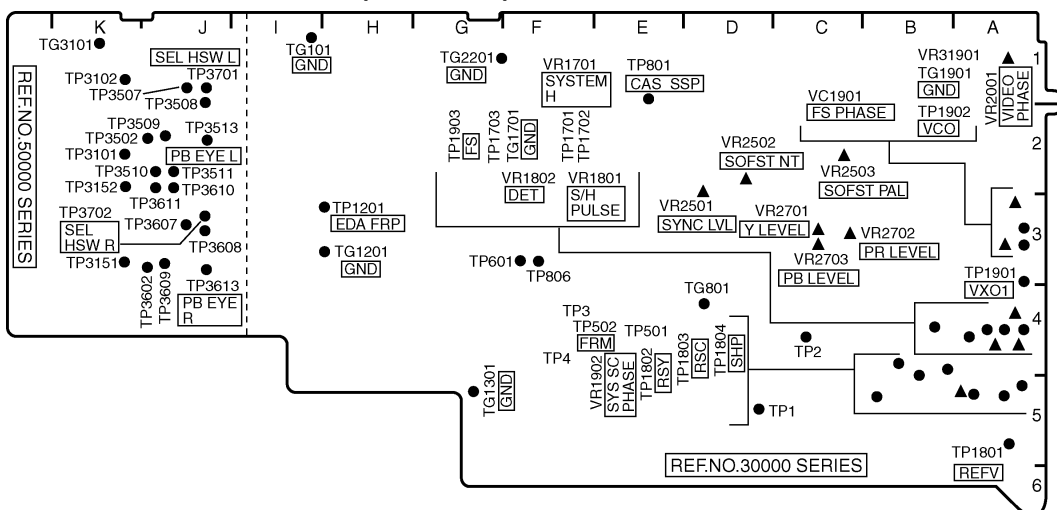


## 7. LOCATION OF TEST POINTS & ADJUSTMENT VR

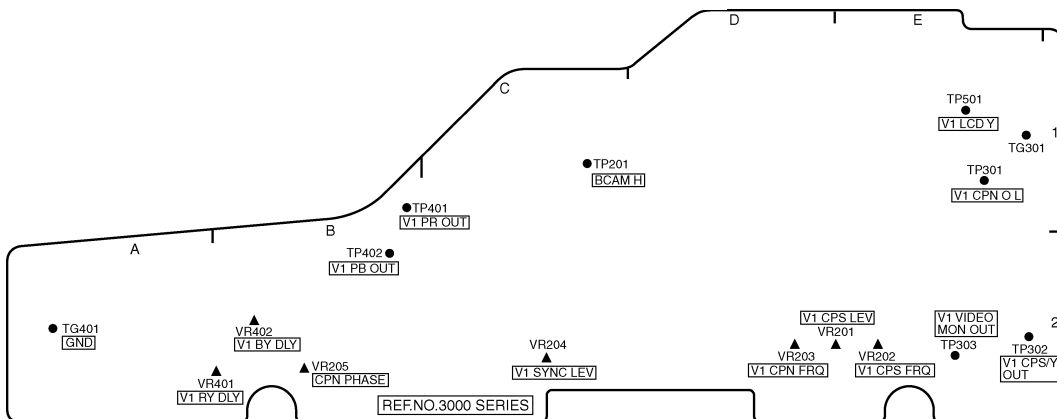
## DIGITAL 1 P.C. BOARD (Component Side)



## DIGITAL1 P.C. BOARD (Foil Side)



### V OUT 1 P.C. BOARD (Component Side)





Top view of the REF.NO.30000 SERIES component. The layout features a grid from A to L and 1 to 6. Key components and features include:

- Grid:** A horizontal grid from A to L and a vertical grid from 1 to 6.
- Components:**
  - TG33902 (GND) at B1.
  - TG33903 (GND) at F4.
  - TG33904 (GND) at H6.
  - TP54421 (AT-3) at J1.
  - TP54321 (AT-3) at K1.
- Other Features:**
  - A large rectangular area on the left side, spanning from A1 to D5.
  - A small circle at A5.
  - A small circle at L1.
- Reference:** REF.NO.30000 SERIES

**DIGITAL 2 P.C. BOARD (Foil Side)**

Component locations and labels are indicated by dots and text boxes. The board is oriented with a grid from K to A (left to right) and 1 to 6 (top to bottom).

**Component Labels:**

- TP54417, TP54422, TP54418, TP54419, TP54420, TP54415, TP54412, TP54509, TP54202, TP54502, TP54611, TP54511, TP54609, TP54251, TP54101, TP54317, TP54316, TP54102, TP54322, TP54318, TP54319, TP54320, TP54321, TP54322, TP54323, TP54324, TP54325, TP54326, TP54327, TP54328, TP54329, TP54330, TP54331, TP54332, TP54333, TP54334, TP54335, TP54336, TP54337, TP54338, TP54339, TP54340, TP54341, TP54342, TP54343, TP54344, TP54345, TP54346, TP54347, TP54348, TP54349, TP54350, TP54351, TP54352, TP54353, TP54354, TP54355, TP54356, TP54357, TP54358, TP54359, TP54360, TP54361, TP54362, TP54363, TP54364, TP54365, TP54366, TP54367, TP54368, TP54369, TP54370, TP54371, TP54372, TP54373, TP54374, TP54375, TP54376, TP54377, TP54378, TP54379, TP54380, TP54381, TP54382, TP54383, TP54384, TP54385, TP54386, TP54387, TP54388, TP54389, TP54390, TP54391, TP54392, TP54393, TP54394, TP54395, TP54396, TP54397, TP54398, TP54399, TP54400, TP54401, TP54402, TP54403, TP54404, TP54405, TP54406, TP54407, TP54408, TP54409, 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REF.NO.3000 SERIES

TP401  
V2 PR OUT

TP402  
V2 PB OUT

TP201  
BCAM H

TP501  
V2 LCD Y

TG401  
GND

TG301  
GND

TP301  
V2 CPN O L

TP302  
V2 CPS Y OUT

TP303  
V2 VIDEO MON OUT

VR401  
V2 RY DLY

VR402  
V2 BY DLY

VR201  
V2 CPS LEV

VR202  
V2 CPS FRQ

VR203  
V2 CPN FRQ

VR204  
V2 SYNC LEV

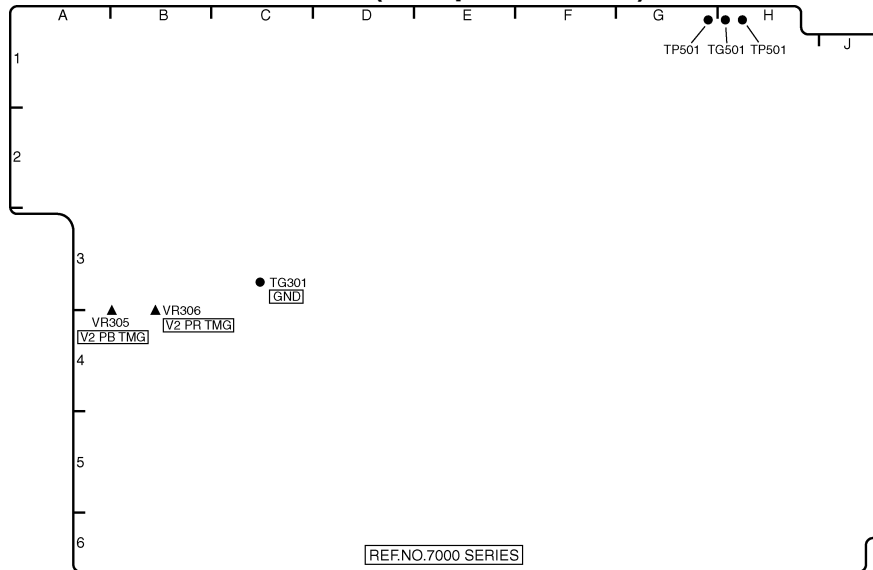
VR205  
CPN PHASE

VR206  
V2 CPS Y OUT

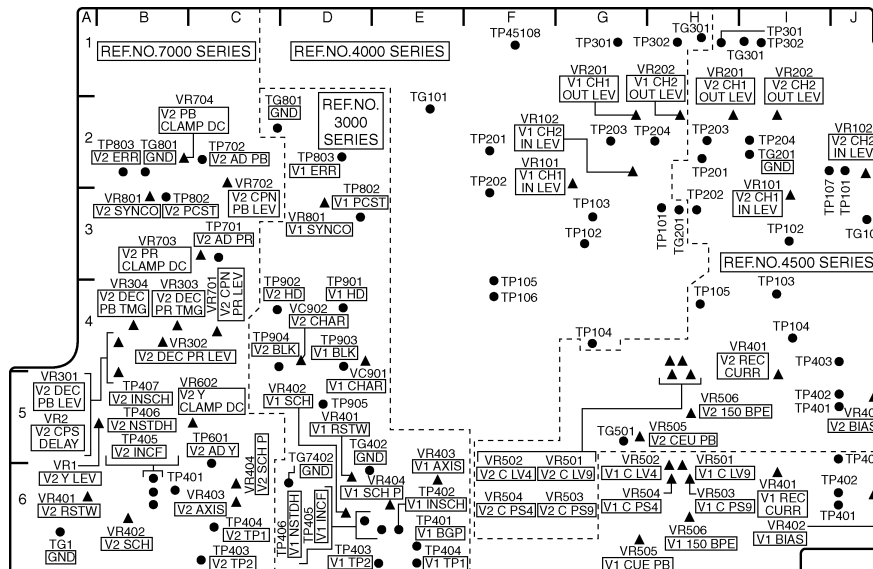
A B C D E



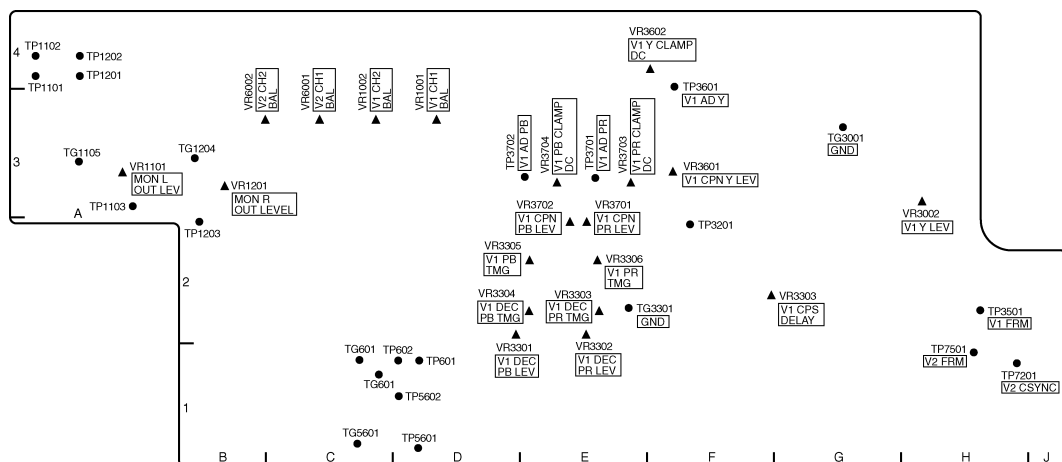
## AUDIO VIDEO P.C. BOARD (Component Side)



## AUDIO VIDEO P.C. BOARD (Foil Side)

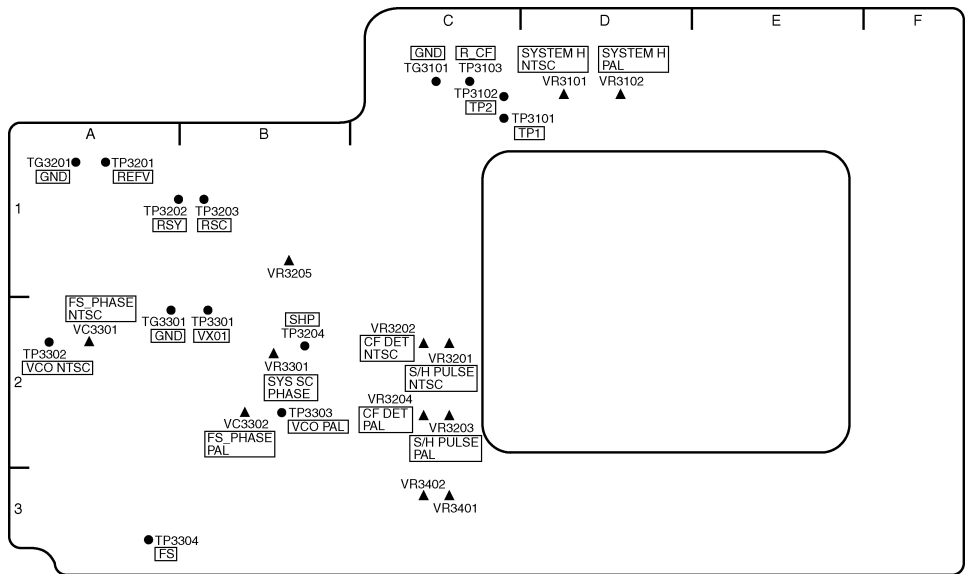


## AD/VD SUB P.C. BOARD (Foil Side)

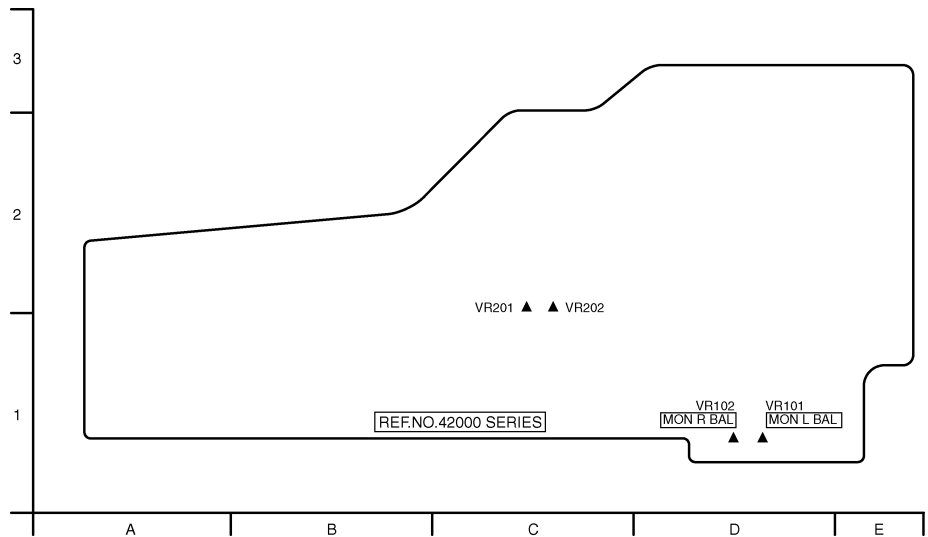




**SG P.C. BOARD (Component Side)**



**AV IO P.C. BOARD (Component Side)**

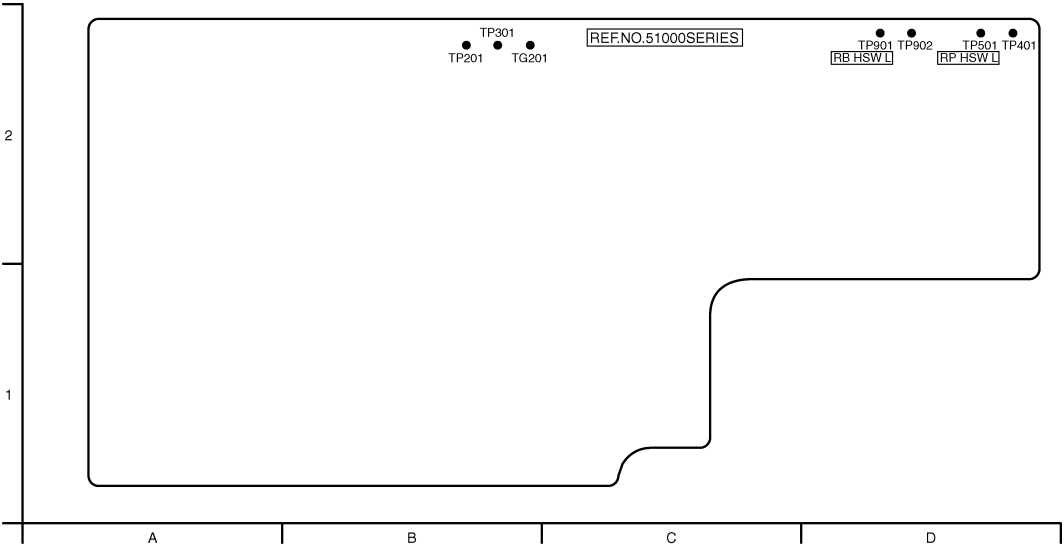


**AV IO P.C. BOARD (Foil Side)**

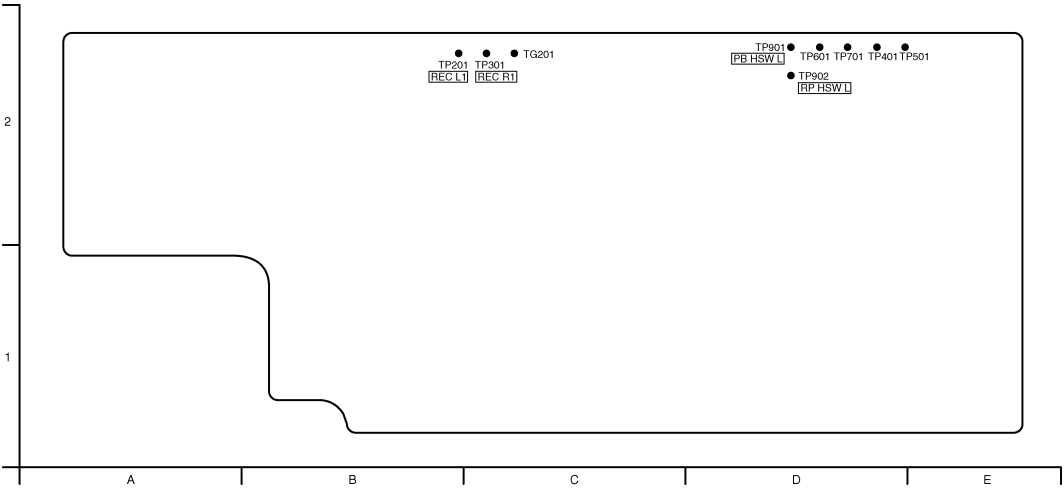




RF AMP 1 P.C. BOARD (Foil Side)

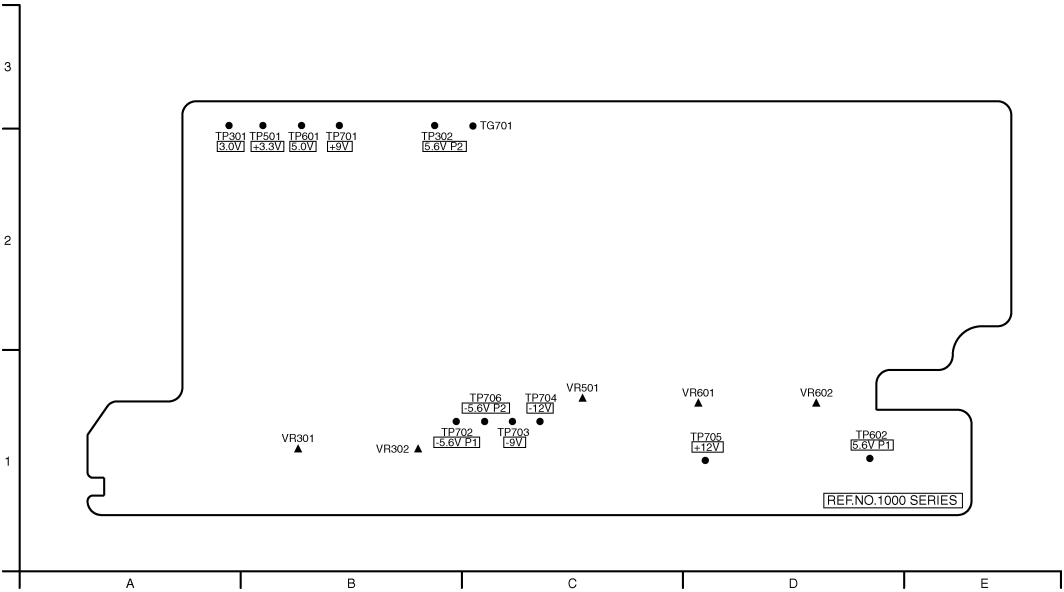


RF AMP 2 P.C. BOARD (Foil Side)

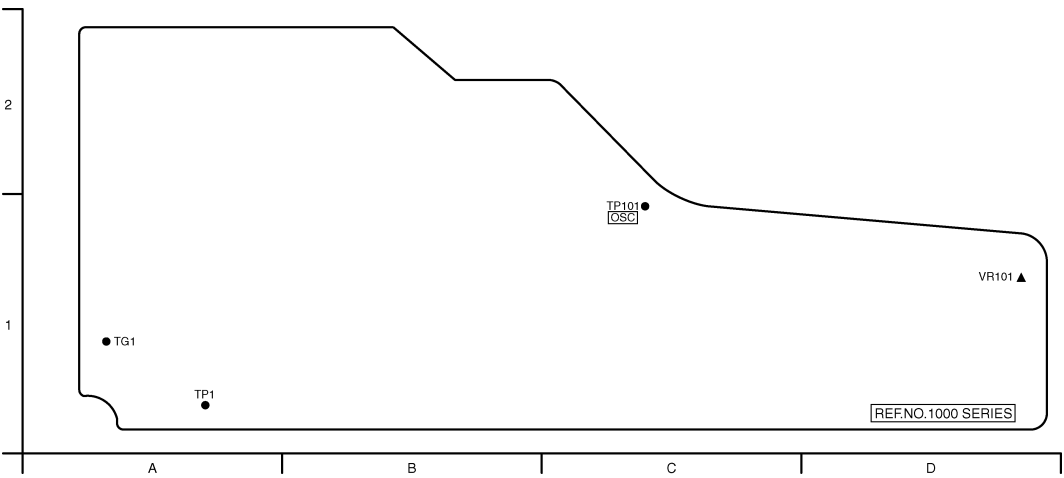




POWER 1 P.C. BOARD (Component Side)



POWER 2 P.C. BOARD (Component Side)





REFNO.23000 SERIES

Map showing sampling locations (TP, TG, VR, IC) and their corresponding coordinates (X, Y) for the REFNO.23000 SERIES. The Y-axis ranges from 1 to 5. The X-axis is labeled with letters A, B, C, and D.

Location	Approx. X	Approx. Y
TP403	B	1.5
TP402	B	1.8
TG505	B	2.2
VR502	C	2.2
VR501	C	2.2
TG201	D	1.5
TG506	D	2.2
TP504	D	2.5
TP501	B	3.2
TP502	D	3.5
TP508	D	3.8
TP405	D	4.2
TP404	D	4.5
TP408	A	2.2
TP213	A	3.2
TP212	A	3.5
TP202	A	3.8
TP406	C	3.2
TP102	C	3.5
TP104	C	3.8
TP101	C	4.2
TP103	C	4.5
TP401	A	4.2
TP203	A	4.5
TP207	A	4.8
IC210	A	5.2
TP214	A	5.5
TP201	D	4.2
TP203	D	4.5
TP204	D	4.8
TP302	D	5.2
TP305	D	5.5
TP306	D	5.8
TG303	D	5.2
TP301	D	5.5
TG304	D	5.8

Top view of the REF.NO.68000 SERIES component. The component is rectangular with a central notch. Pin locations are marked with circles and labeled: TP301 (OSC) at pin 1, TP302 (BL9V-1) at pin 2, TP303 (VLOAD) at pin 3, TP305 (BL9V-2) at pin 4, TP304 (GND) at pin 5, TP11 and TP12 at pin 6, TP2, TP10, TP9, TP5, TP6, TP8, TP4, TP7 at pin 7, TP1 and TP3 at pin 8. A triangle marks VR301 at pin 9. The component is labeled REF.NO.68000 SERIES at the bottom right.

The diagram shows the front panel of the 1000 Series Color Monitor with the following controls and test points:

- Section A:** VR4 VIDEO LEV, VR5 SET UP DC /BLACK LEV.
- Section B:** VR6 HUE/CHROMA PHASE, TP2 CTL, TP4 T ERR, VR3 CHROMA LEV.
- Section C:** VR2 SYSTEM H, VR1 SYS SC FINE.
- Section D:** TP3 TP5 [S ERR] [TSR], TP1 TP6 [TMG] [SPA], TP7 [R HSW], TP8 TP7 [TENSION], TP7 [TENSION].



# SECTION 5

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## BLOCK DIAGRAMS

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## **AUDIO VIDEO & AD/VD SUB**

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## **VIDEO OUT2**

VIDEO OUT2 (VTR2) BLOCK DIAGRAM .....	BLK-21
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## **SERVO DRIVE**

SERVO DRIVE (Common of VTR 1 & 2) BLOCK DIAGRAM .....	BLK-22
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## **MAIN CONTROL**

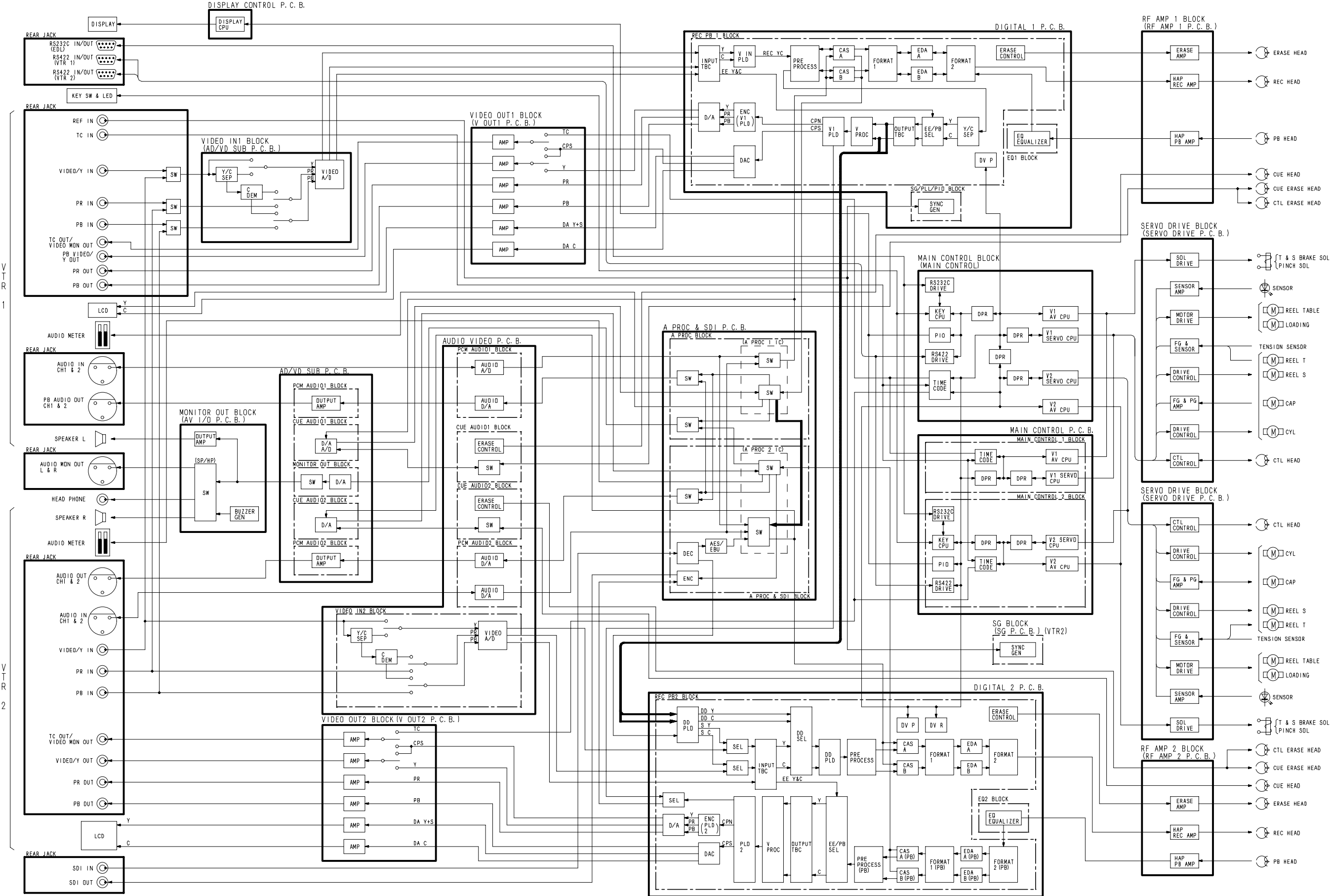
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## **POWER1, POWER2 & POWER3**

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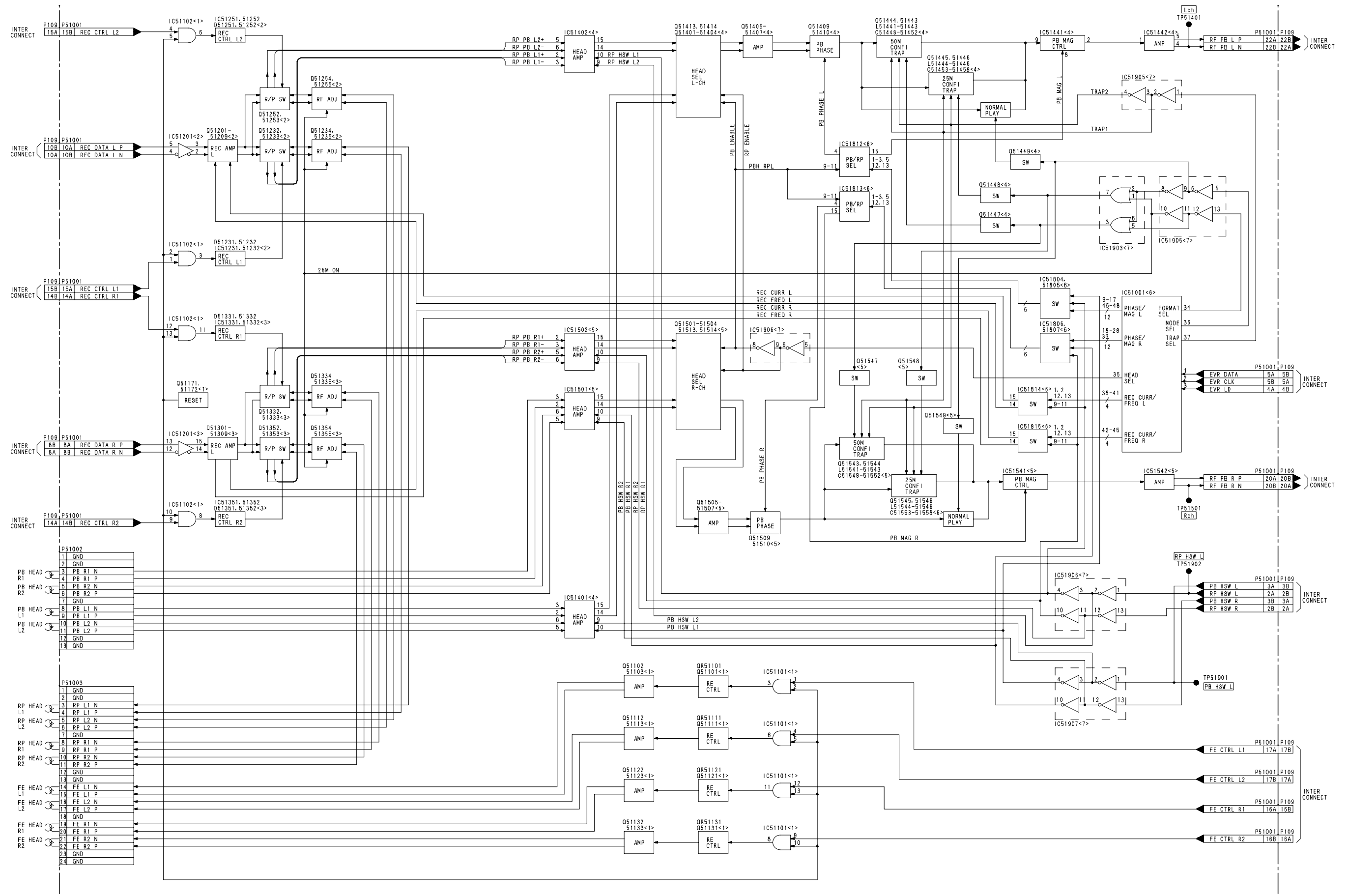


OVERALL BLOCK DIAGRAM



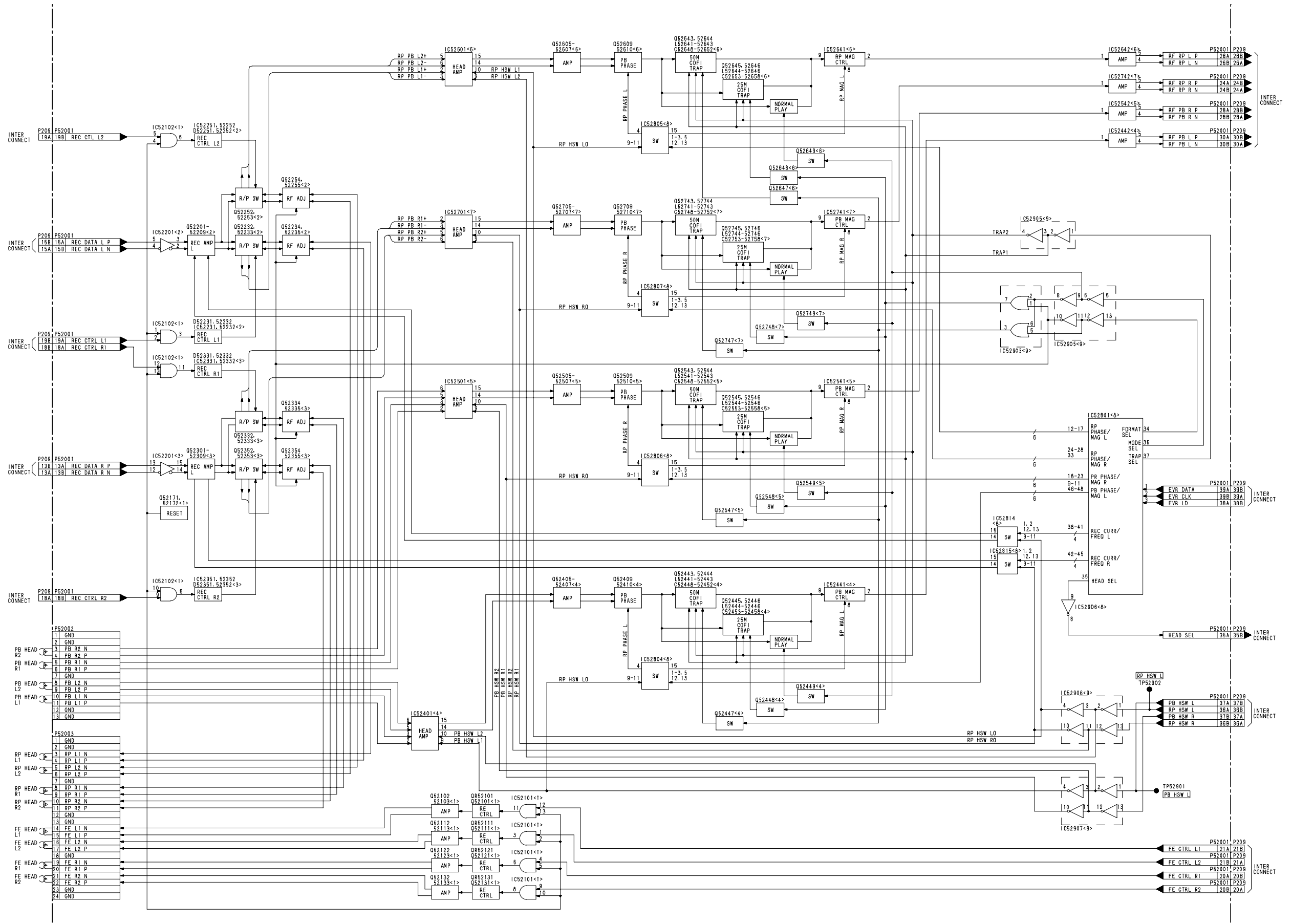


## RF AMP 1 (RF AMP 1) (VTR1) BLOCK DIAGRAM



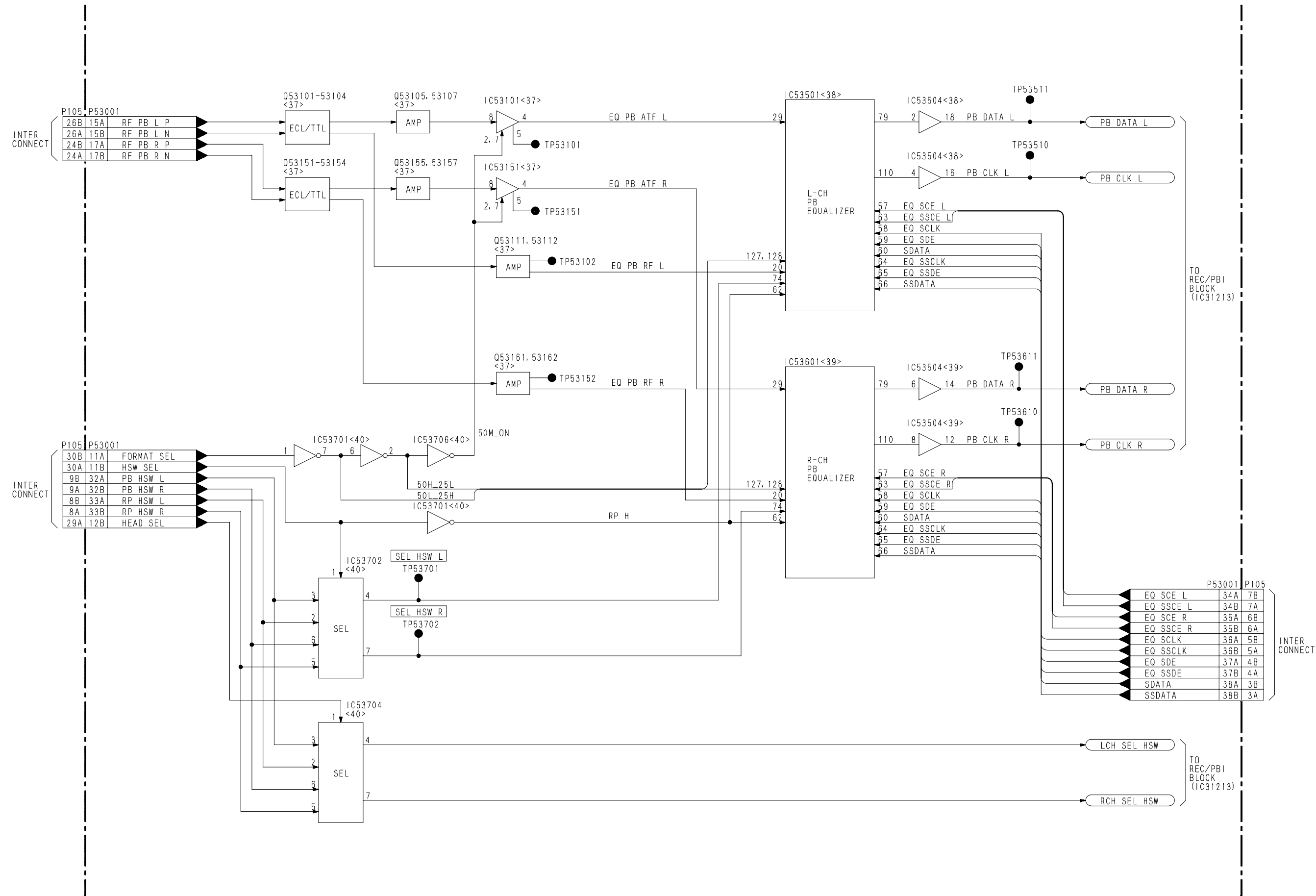


## RF AMP 2 (RF AMP 2) (VTR2) BLOCK DIAGRAM



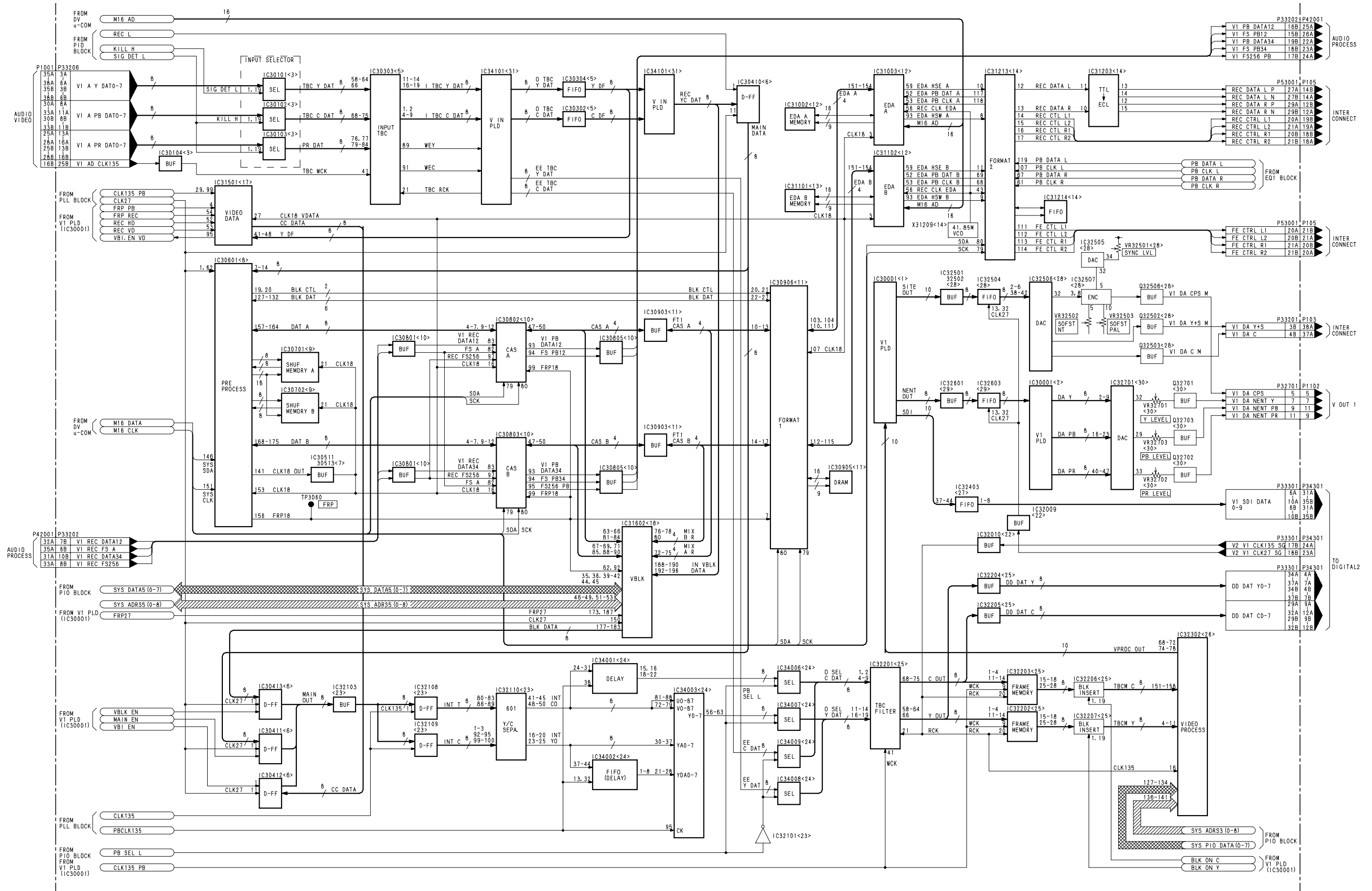


EQ 1 (DIGITAL 1) (VTR1) BLOCK DIAGRAM



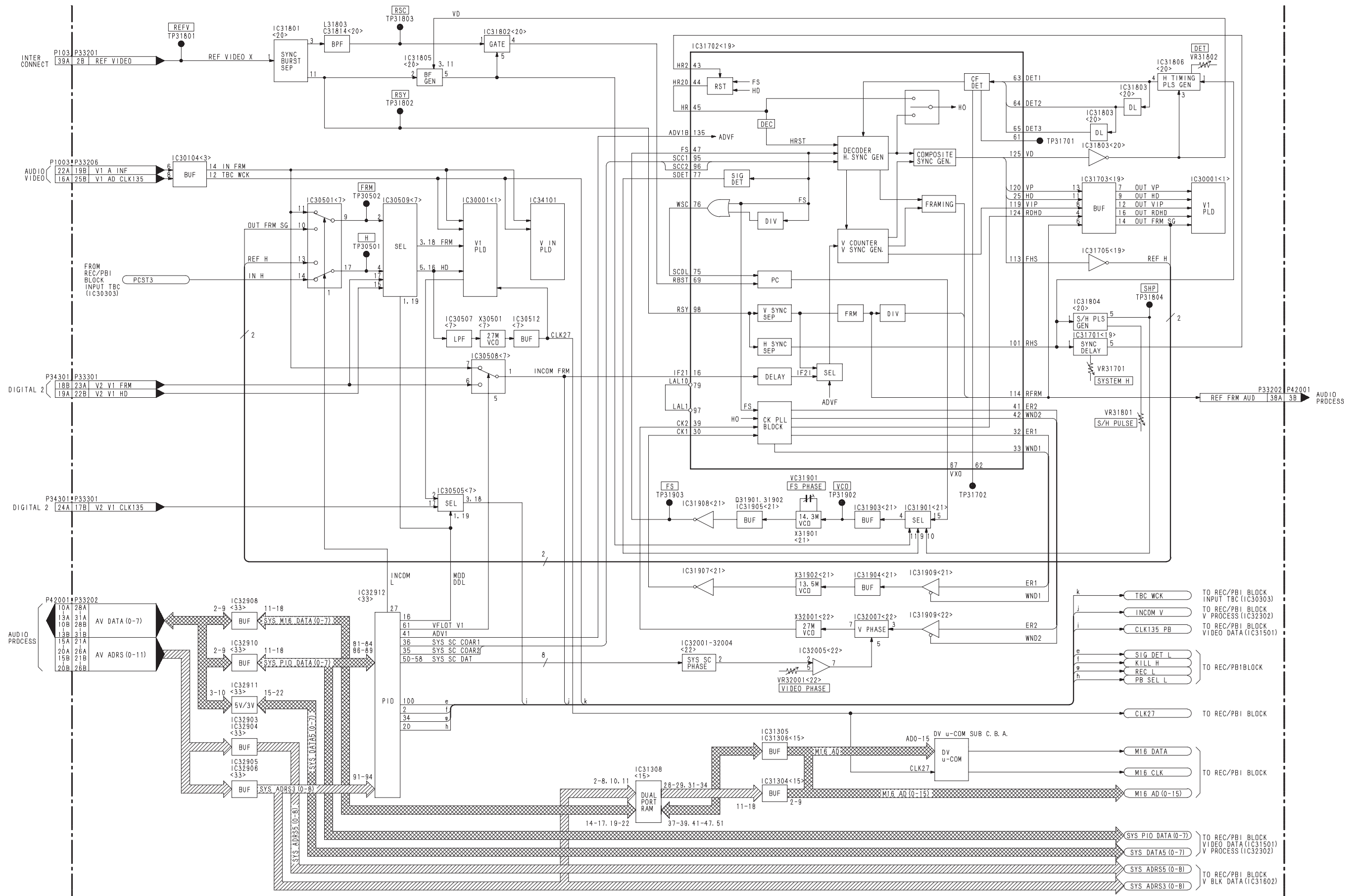


## REC PB 1 (DIGITAL 1) (VTR1) BLOCK DIAGRAM



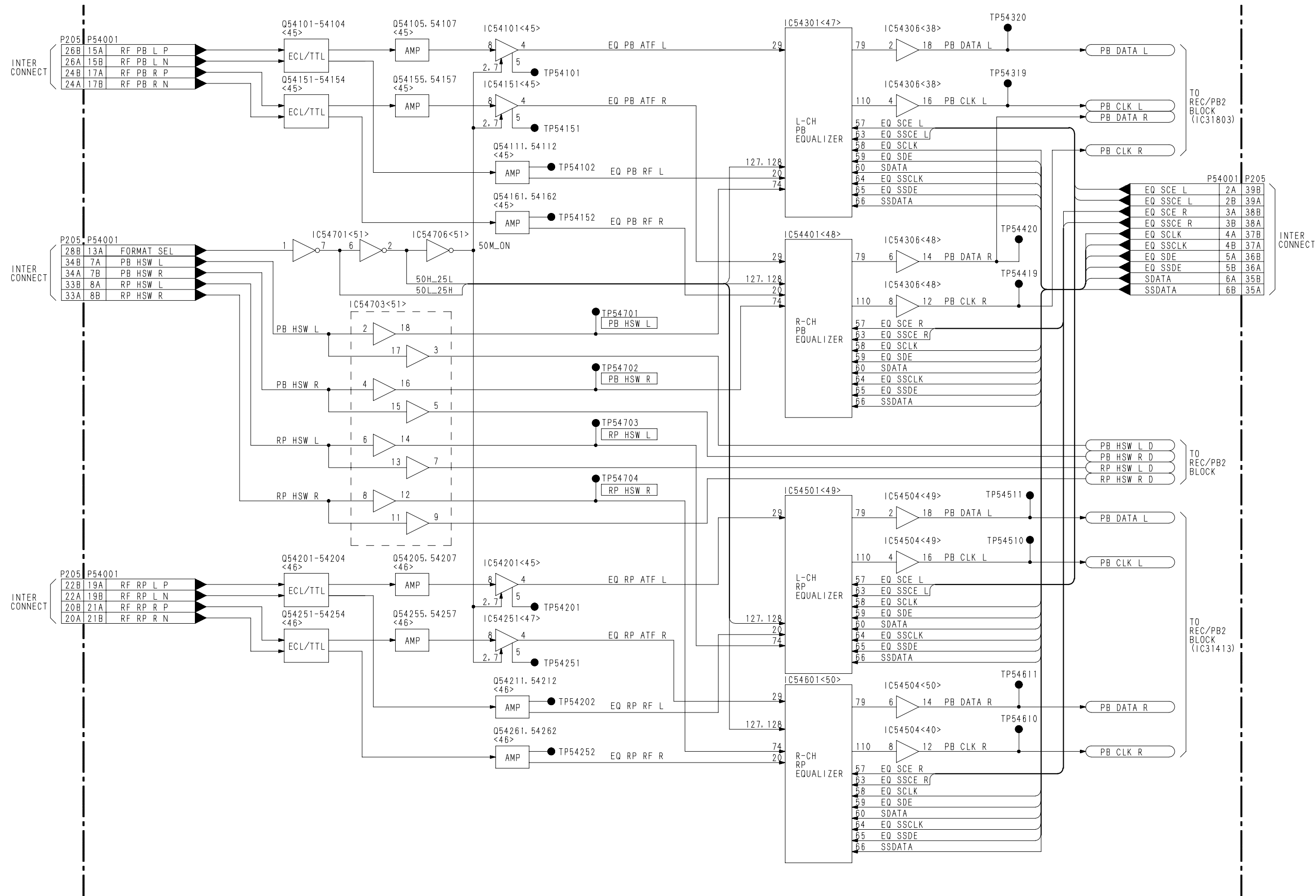


### SG/PLL/PIO (DIGITAL 1) (VTR1) BLOCK DIAGRAM



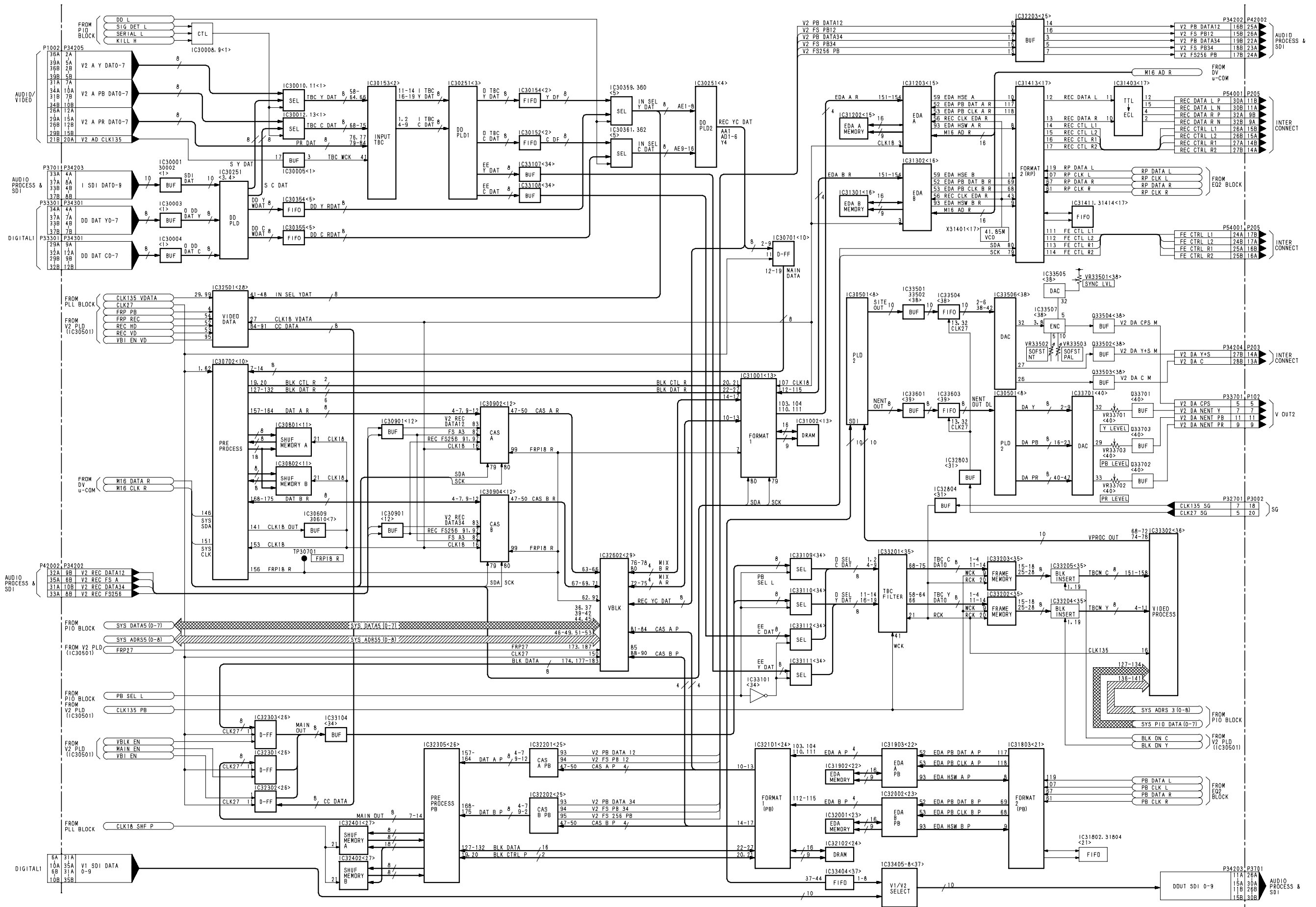


EQ 2 (DIGITAL 2) (VTR2) BLOCK DIAGRAM



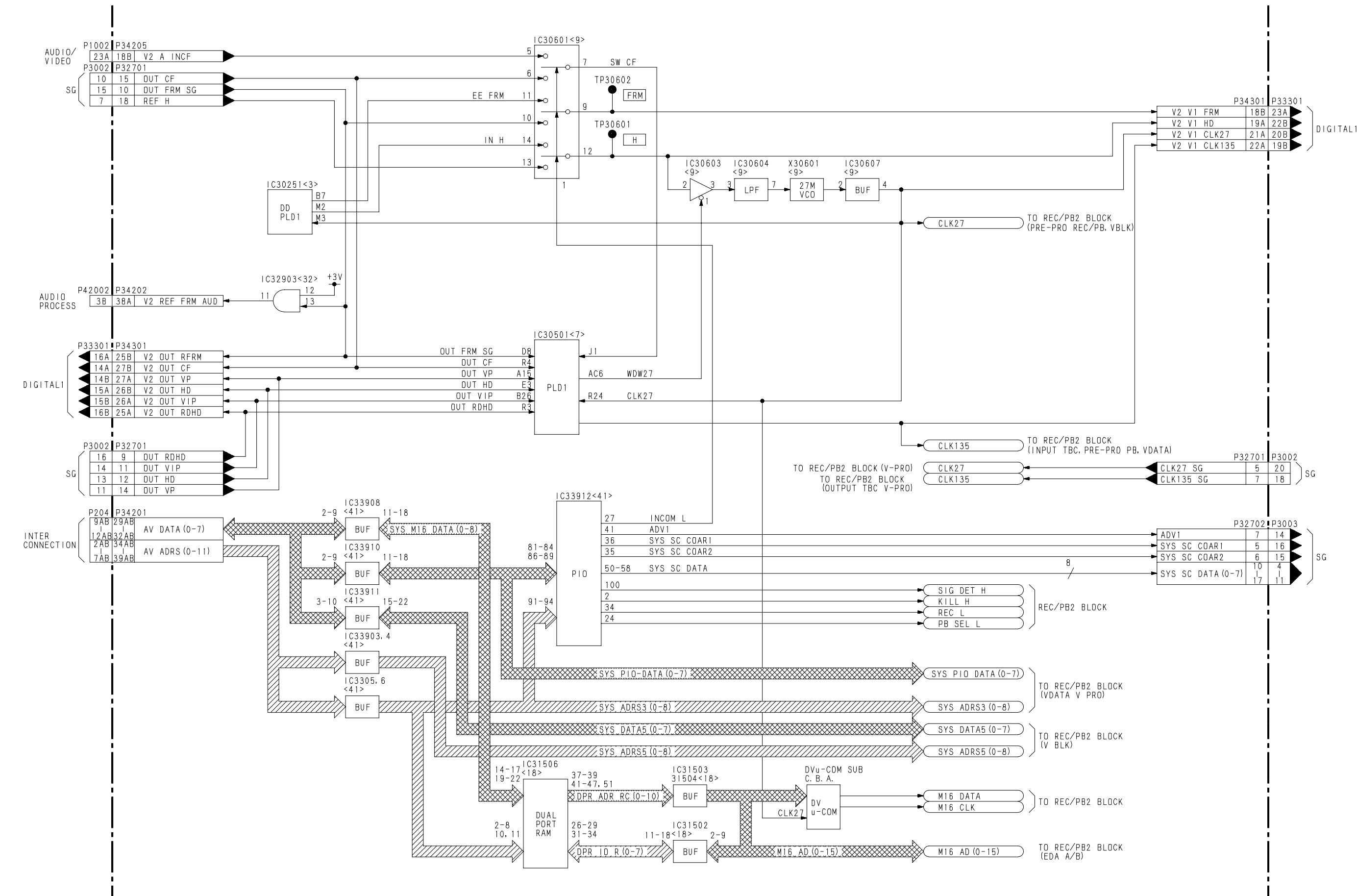


## REC PB 2 (DIGITAL 2) (VTR2) BLOCK DIAGRAM



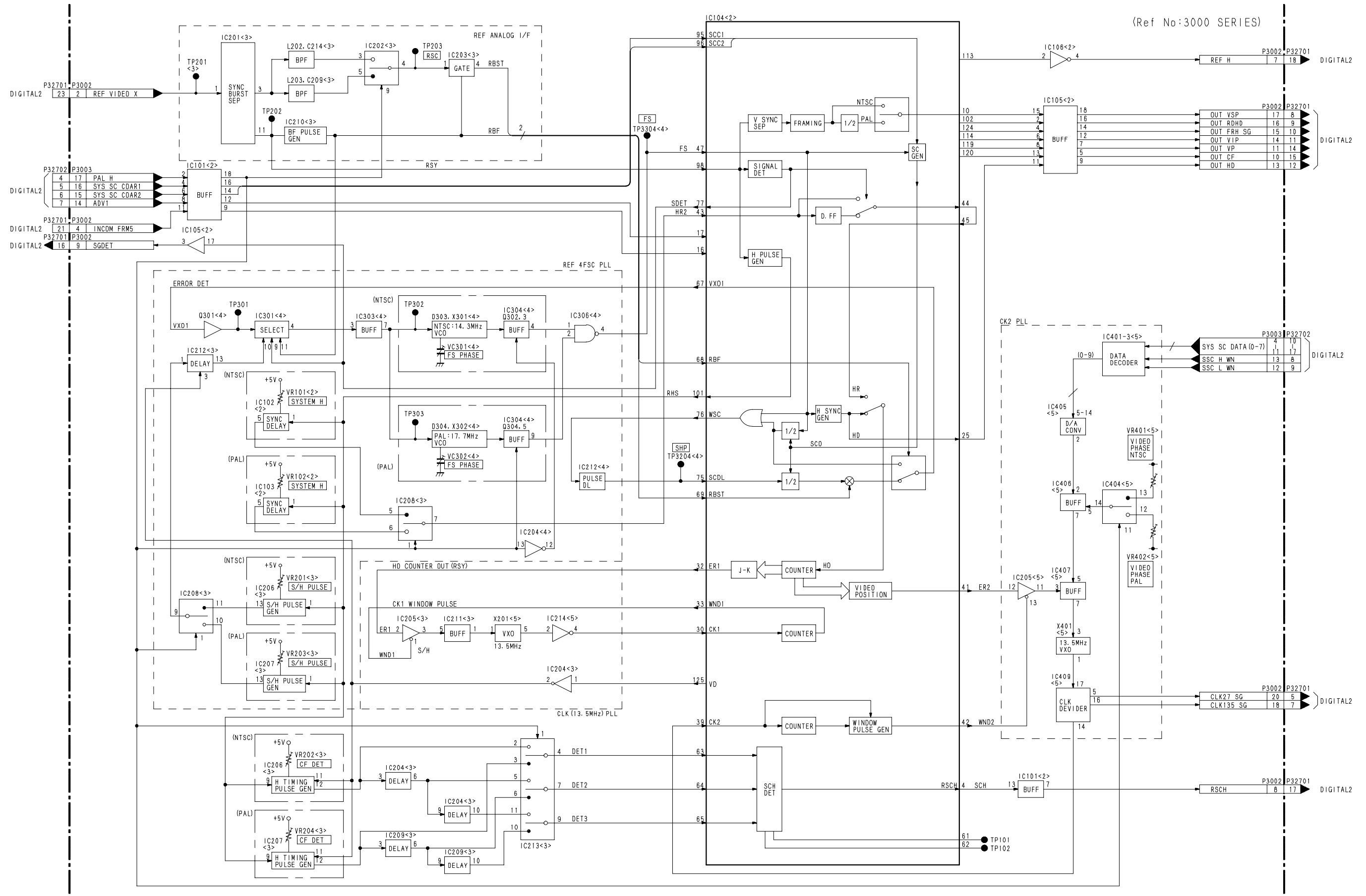


PLL/PIO (DIGITAL 2) (VTR2) BLOCK DIAGRAM



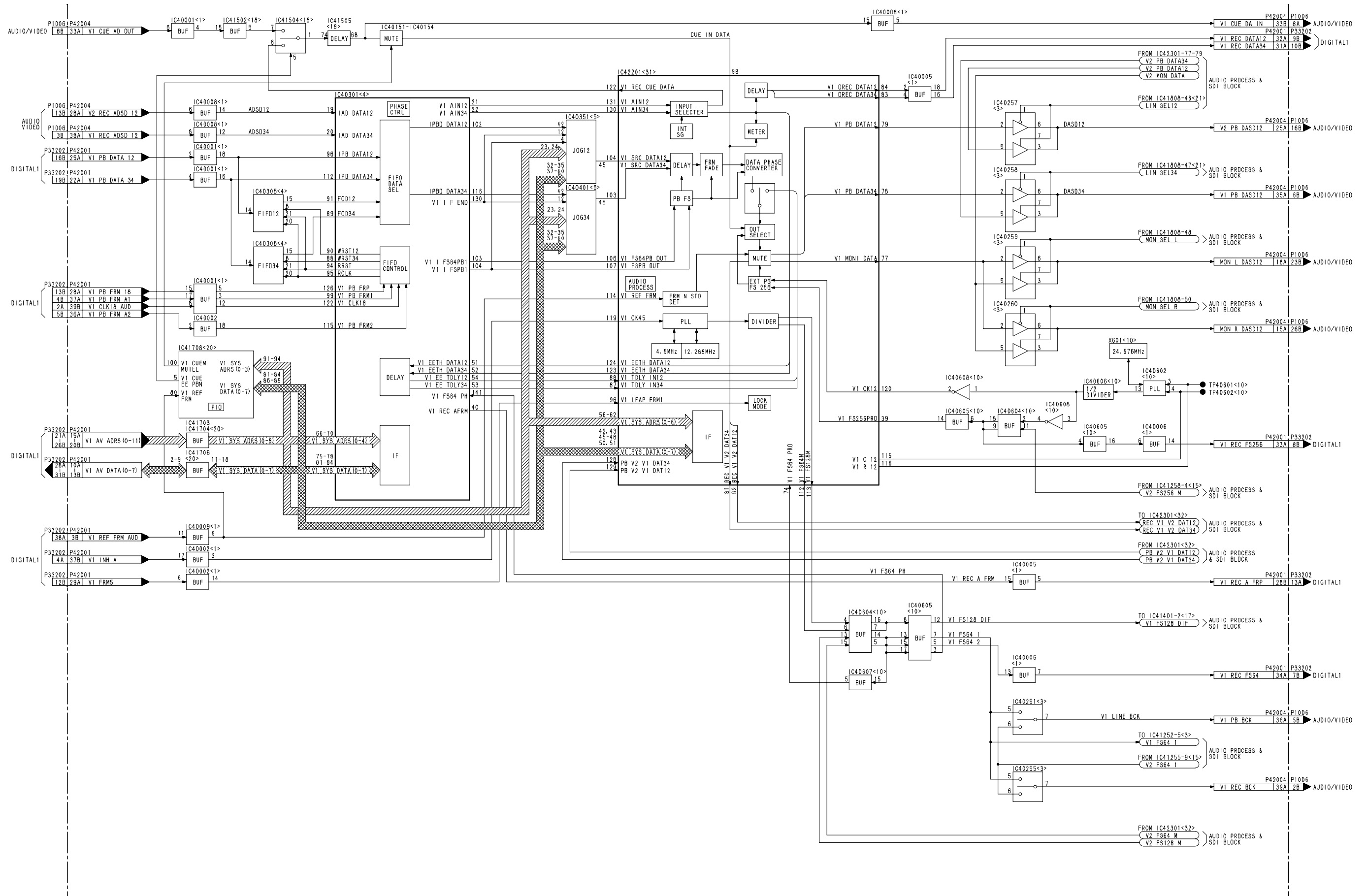


## SYNC GEN (SG) (VTR2) BLOCK DIAGRAM



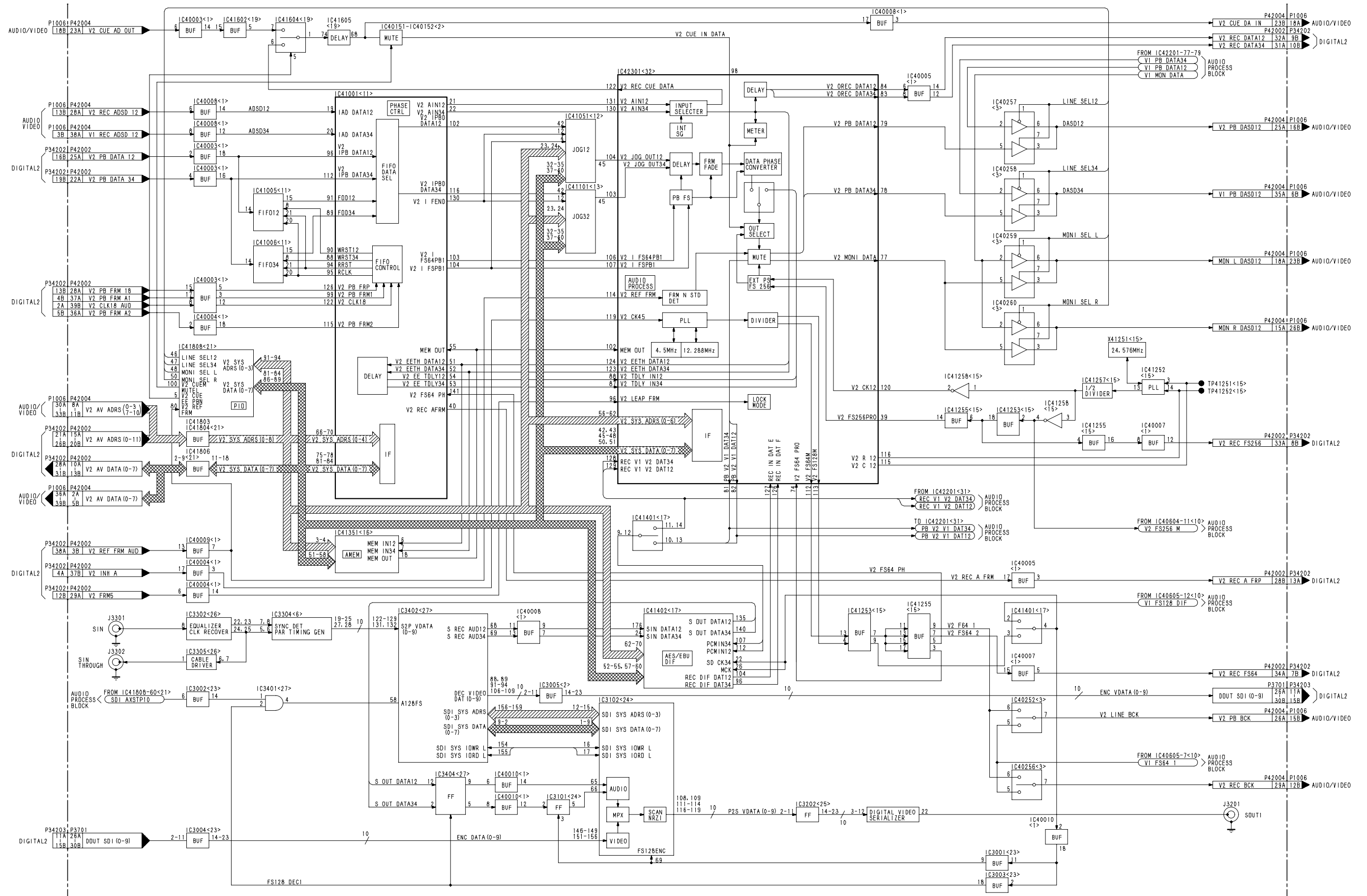


## AUDIO PROCESS (AUDIO PROCESS & SDI) (VTR1) BLOCK DIAGRAM



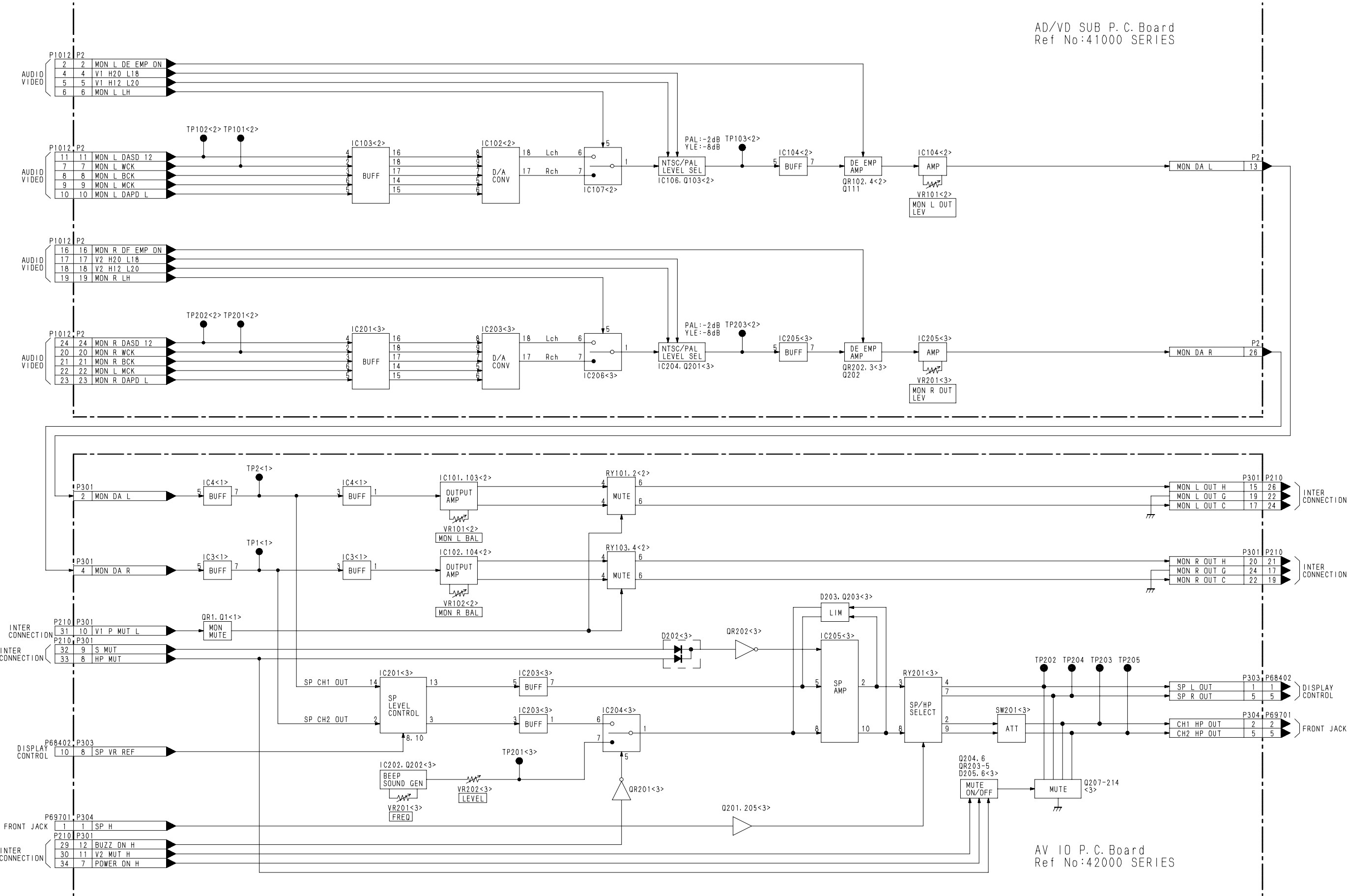


## AUDIO PROCESS & SDI (AUDIO PROCESS & SDI) (VTR2) BLOCK DIAGRAM



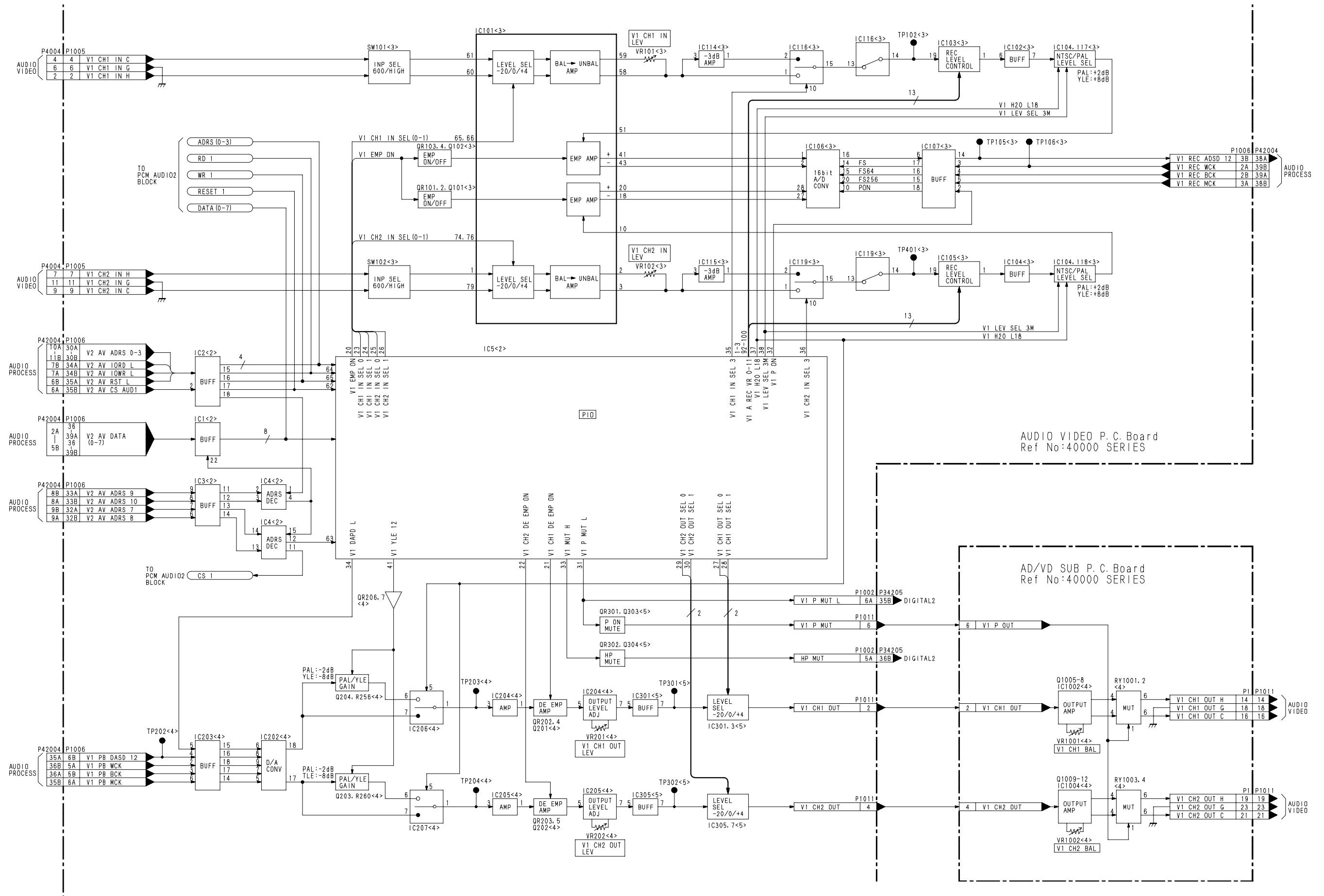


MONITOR OUT (AD/VD SUB & AV/IO) BLOCK DIAGRAM



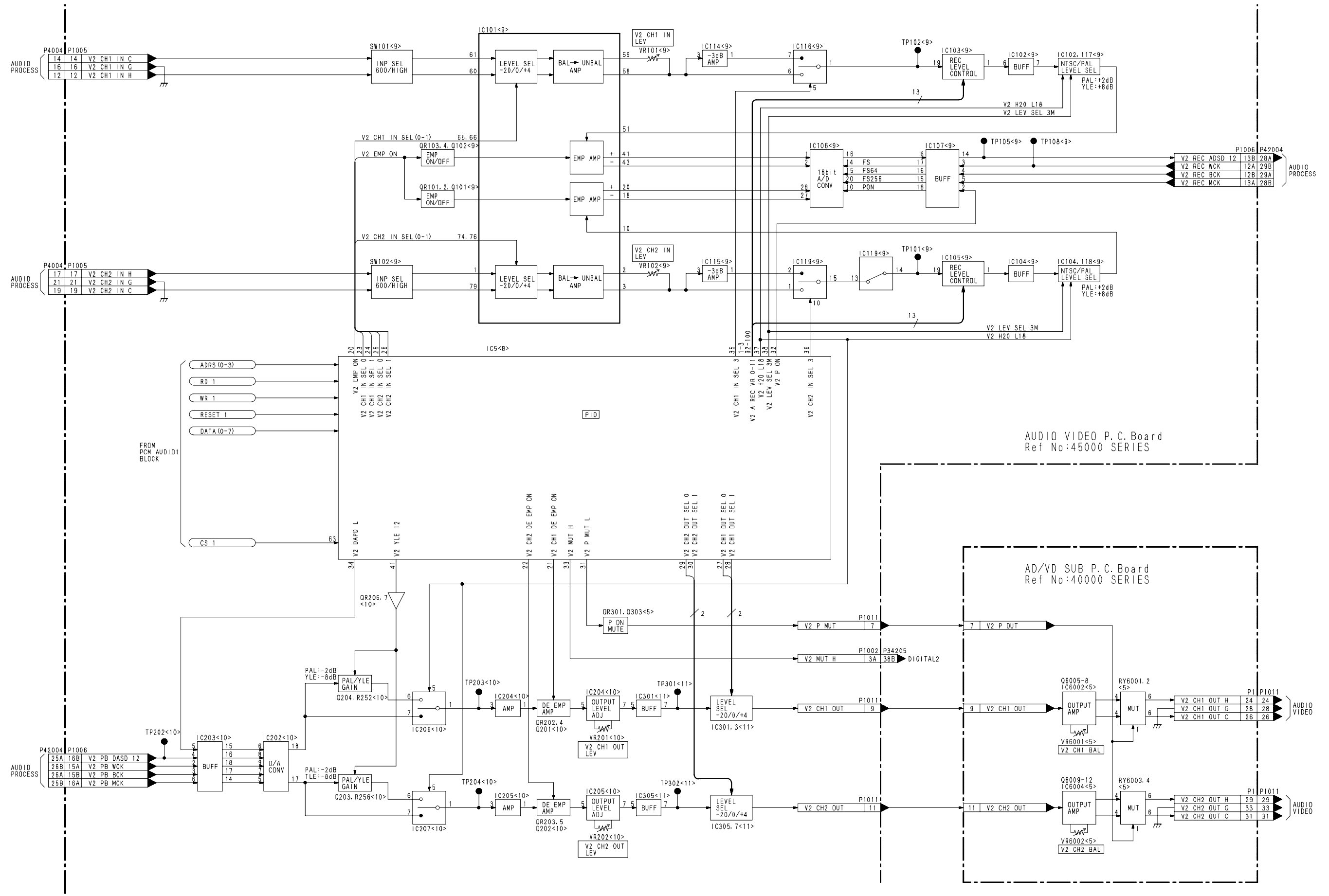


## PCM AUDIO 1 (AUDIO VIDEO & AD/VD SUB) (VTR1) BLOCK DIAGRAM



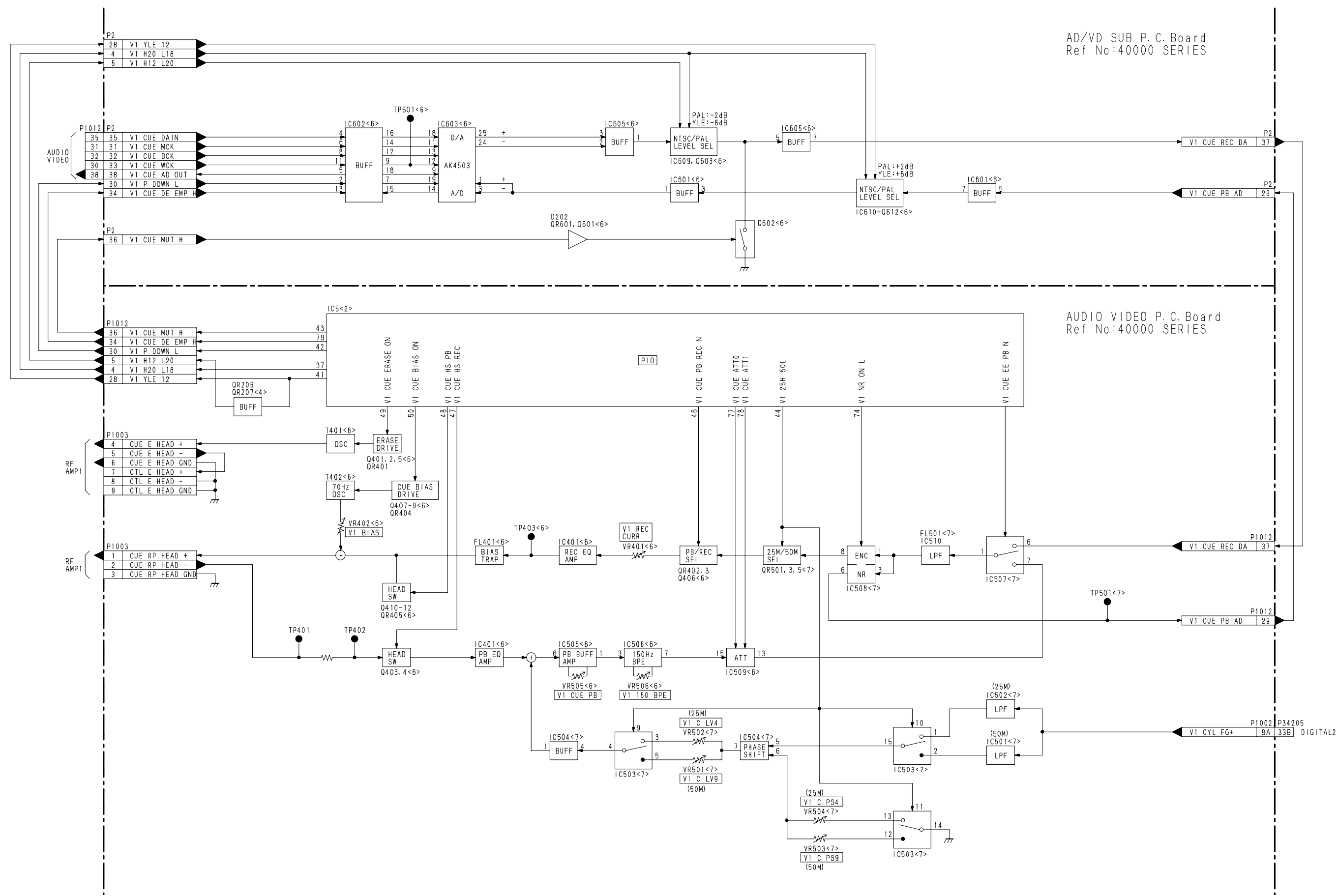


## PCM AUDIO 2 (AUDIO VIDEO & AD/VD SUB) (VTR2) BLOCK DIAGRAM



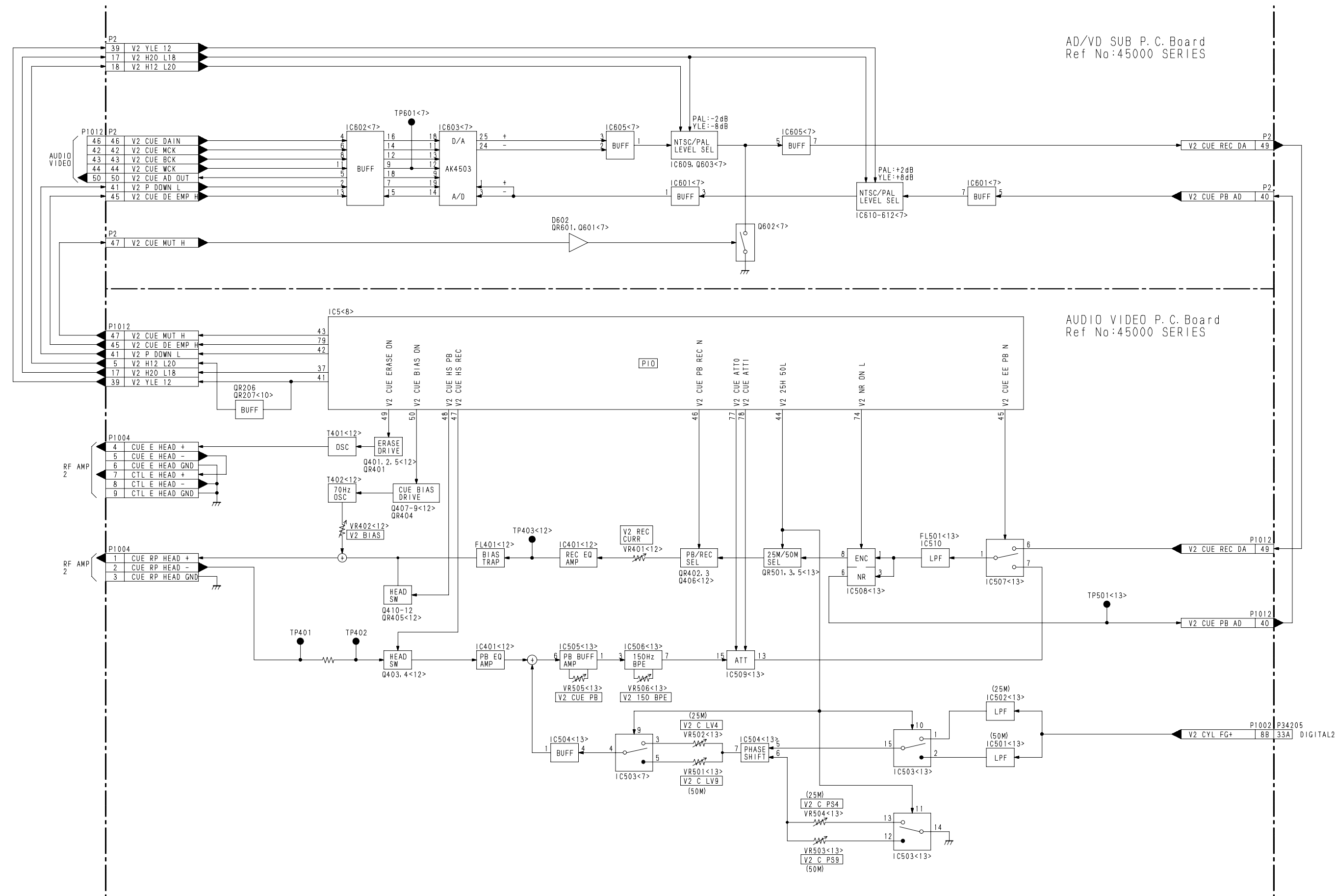


CUE AUDIO 1 (AUDIO VIDEO & AD/VD SUB) (VTR1) BLOCK DIAGRAM



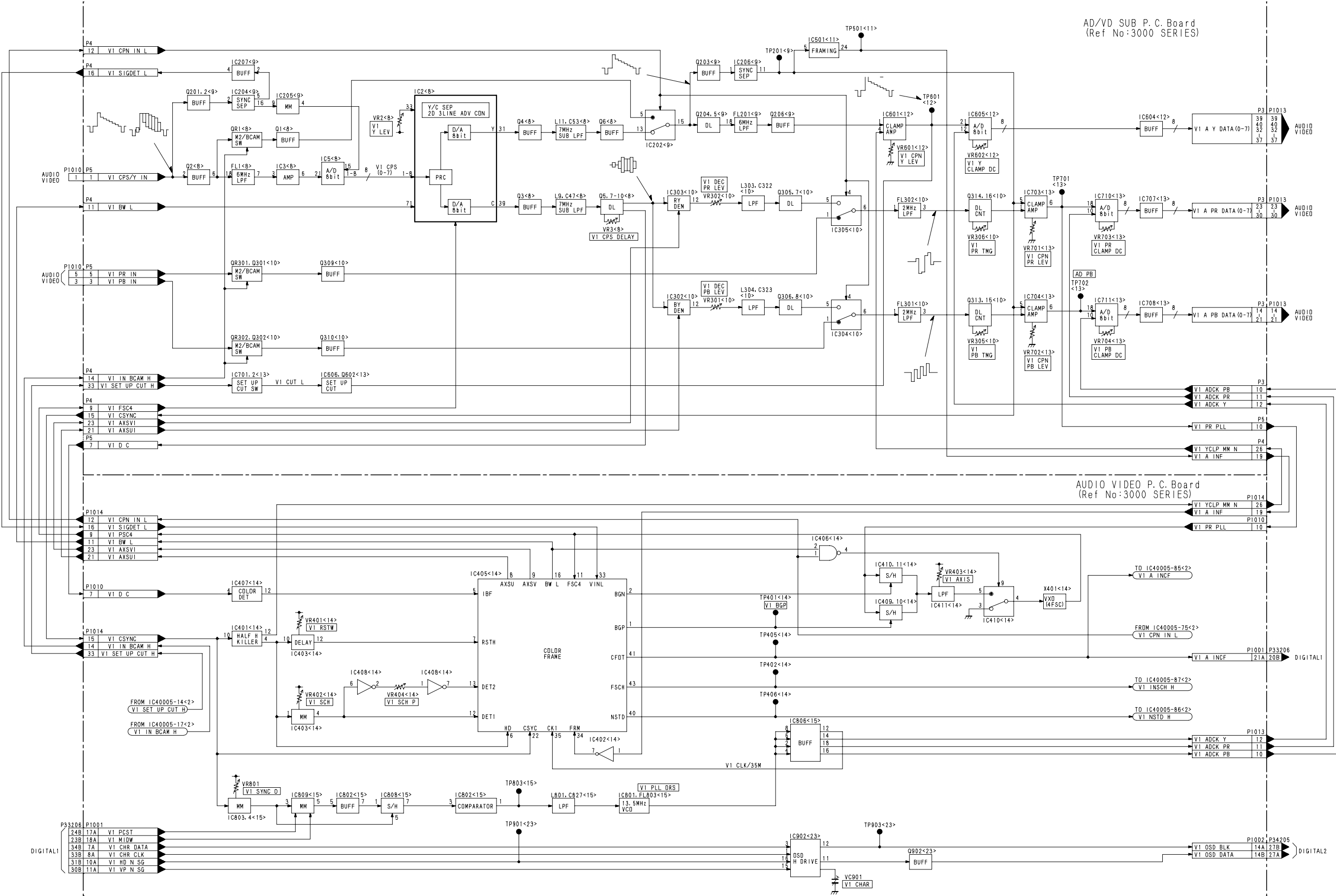


CUE AUDIO 2 (AUDIO VIDEO & AD/VD SUB) (VTR2) BLOCK DIAGRAM



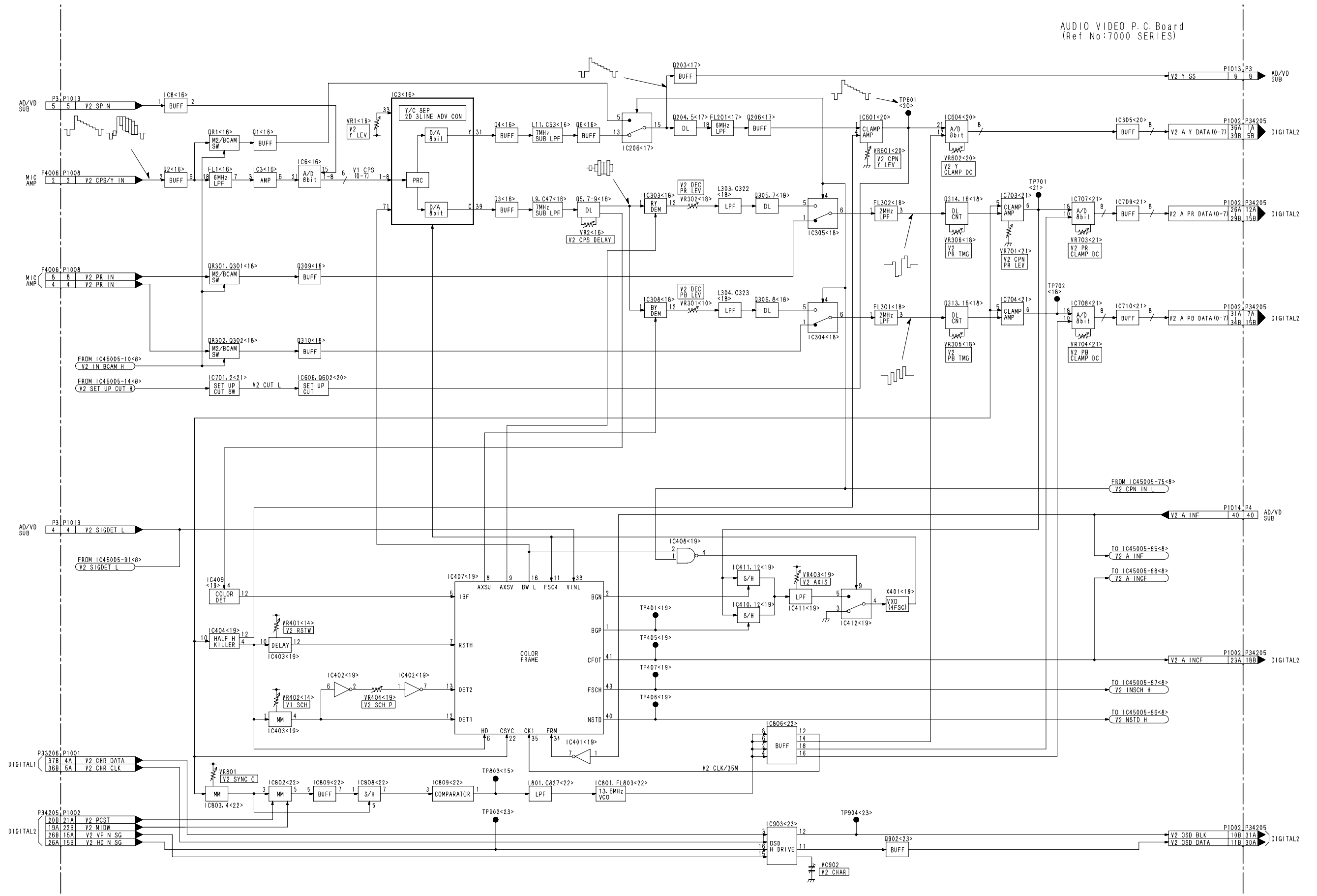


## VIDEO IN 1 (AUDIO VIDEO & AD/VD SUB) (VTR1) BLOCK DIAGRAM



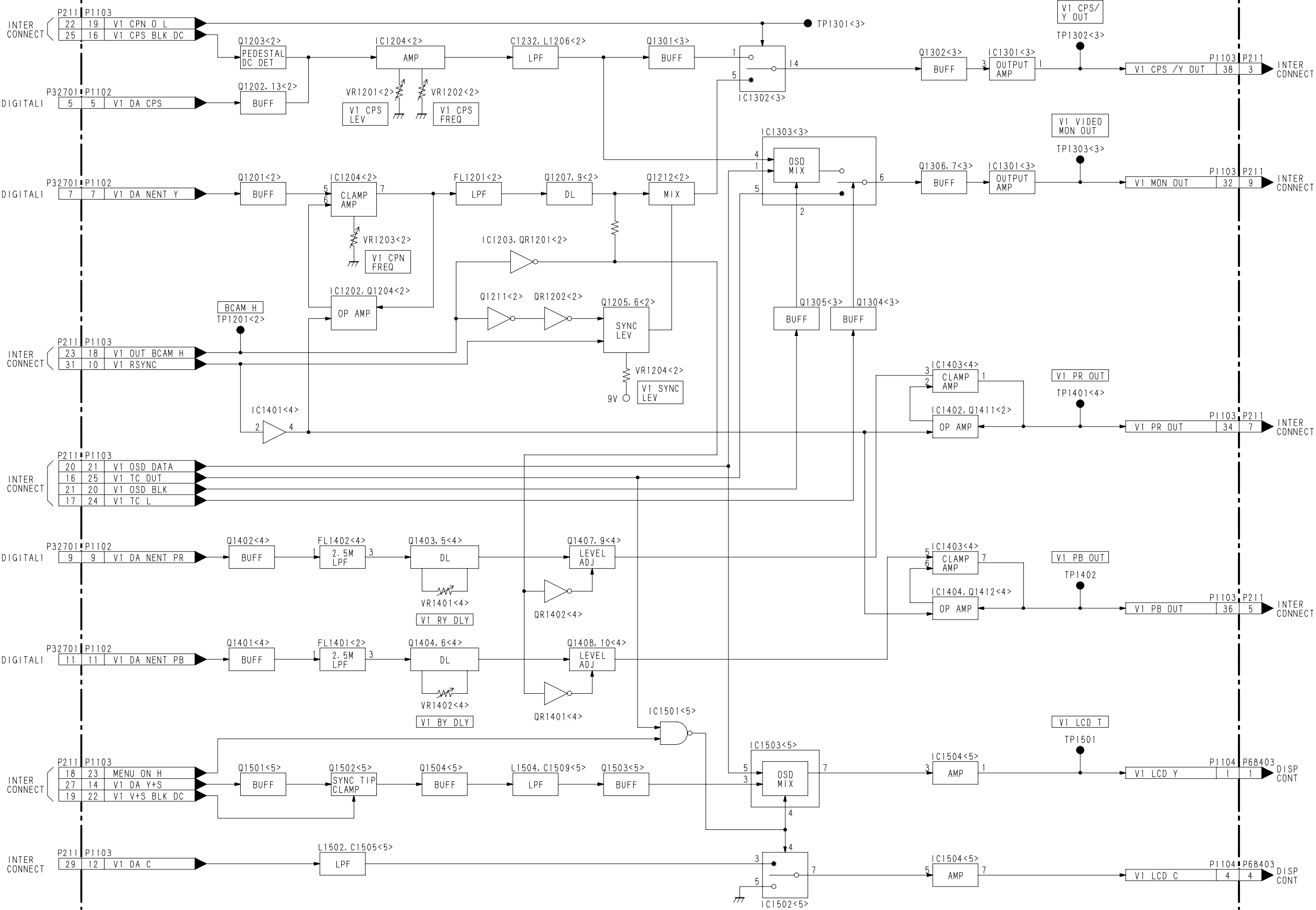


## VIDEO IN 2 (AUDIO VIDEO) (VTR2) BLOCK DIAGRAM



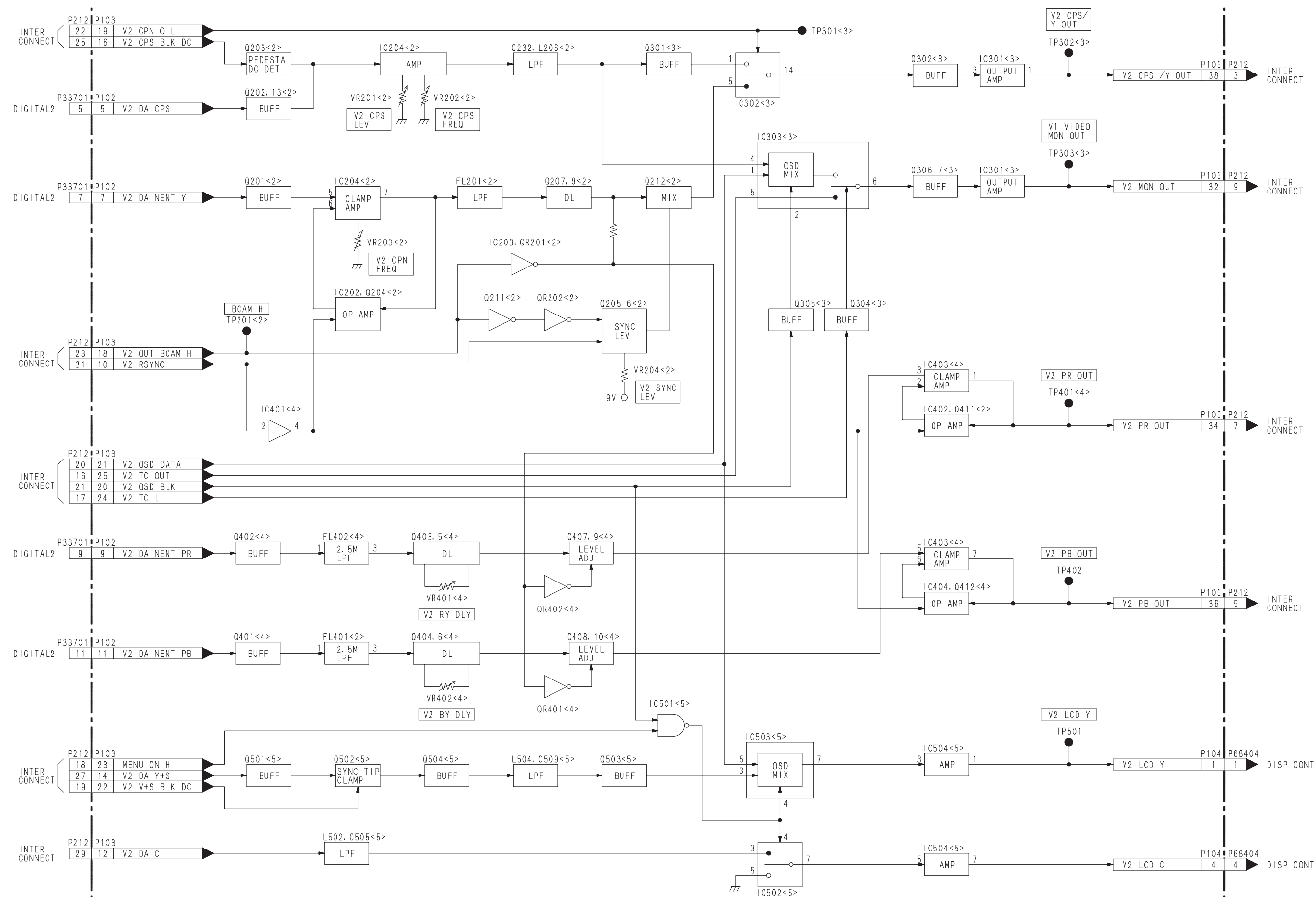


VIDEO OUT 1 (VIDEO OUT 1) (VTR1) BLOCK DIAGRAM



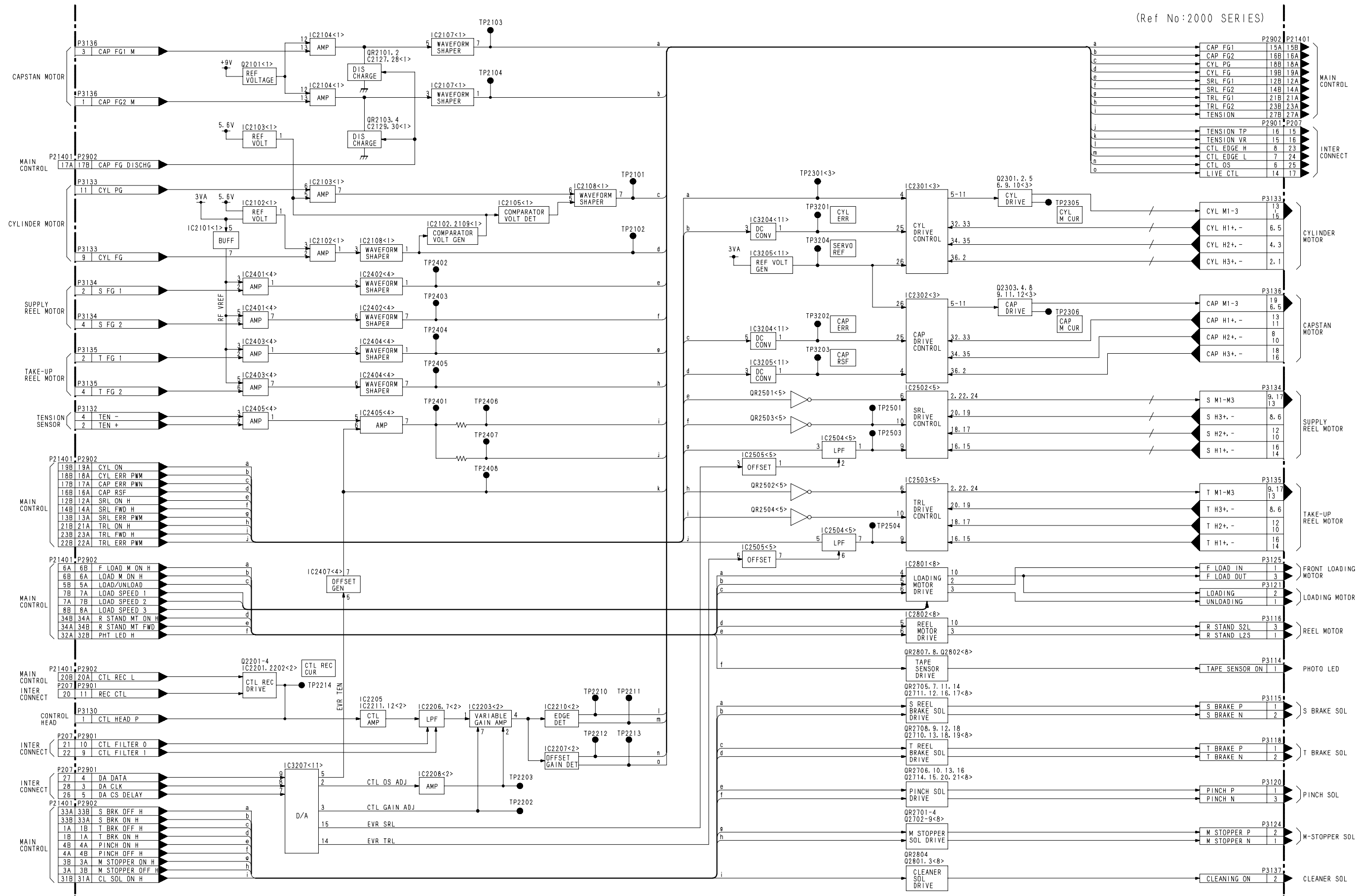


VIDEO OUT 2 (VIDEO OUT 2) (VTR2) BLOCK DIAGRAM



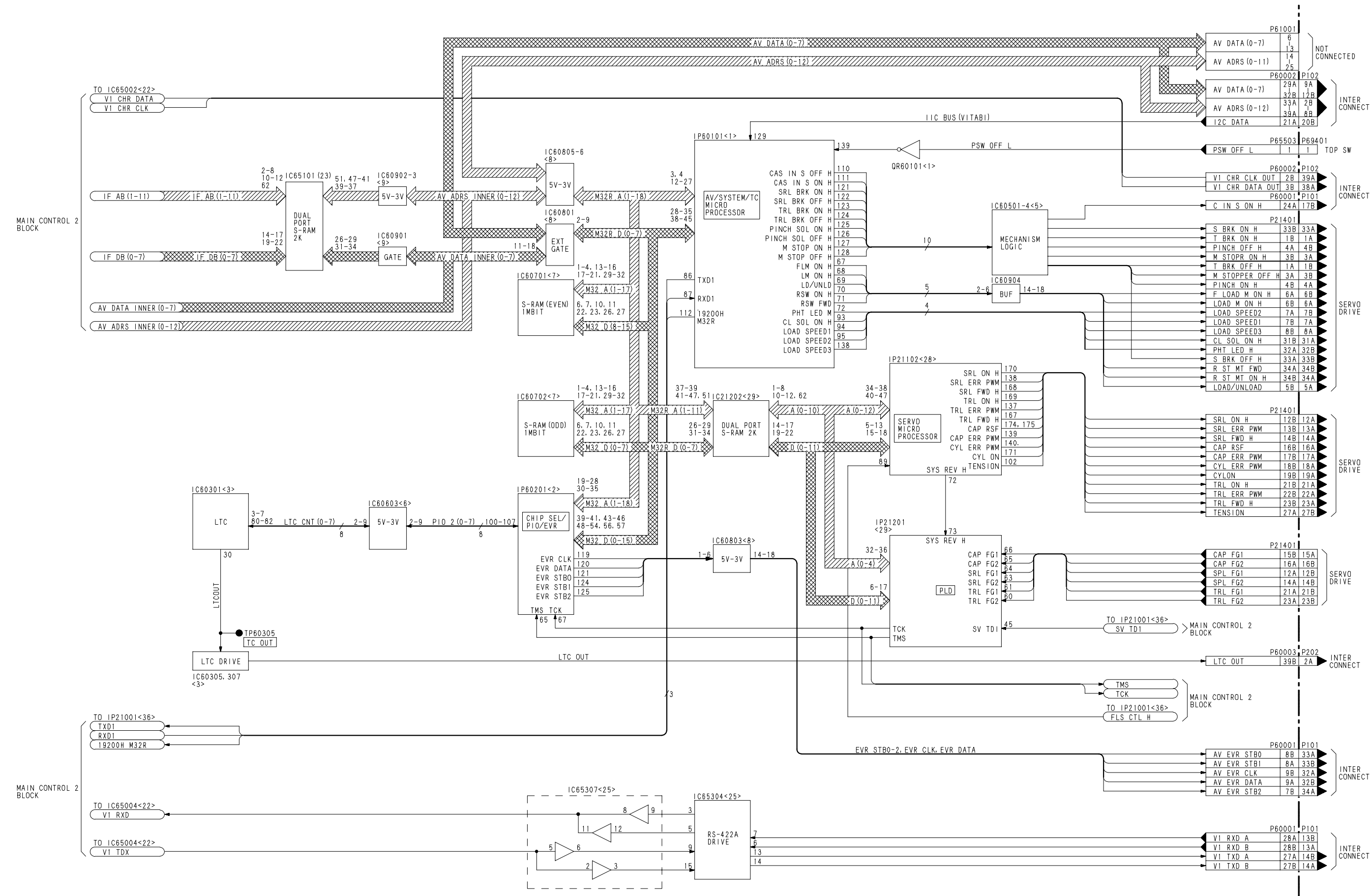


SERVO DRIVE (SERVO DRIVE : Common of VTR 1 & 2) BLOCK DIAGRAM



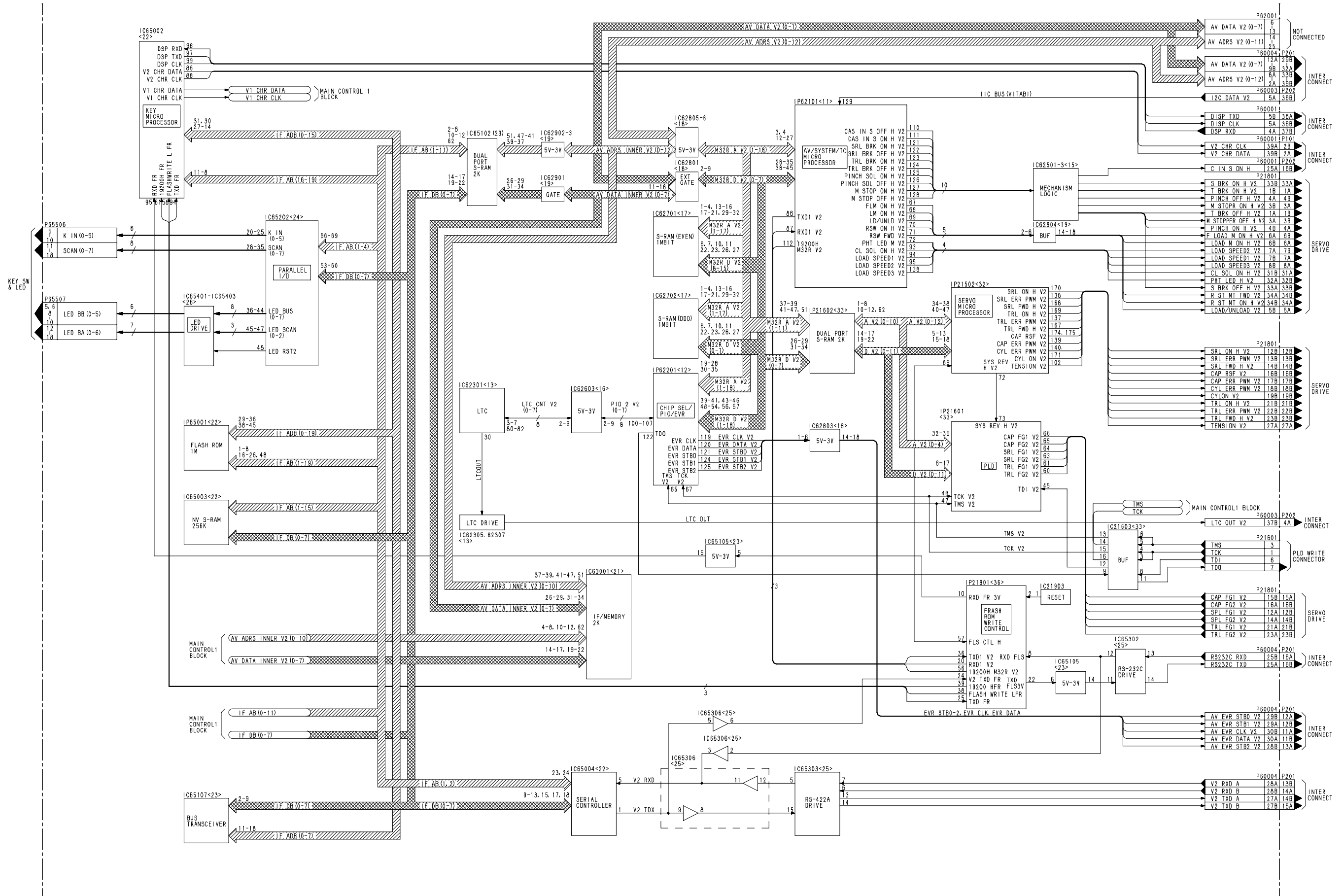


MAIN CONTROL 1 (MAIN CONTROL) (VTR1) BLOCK DIAGRAM



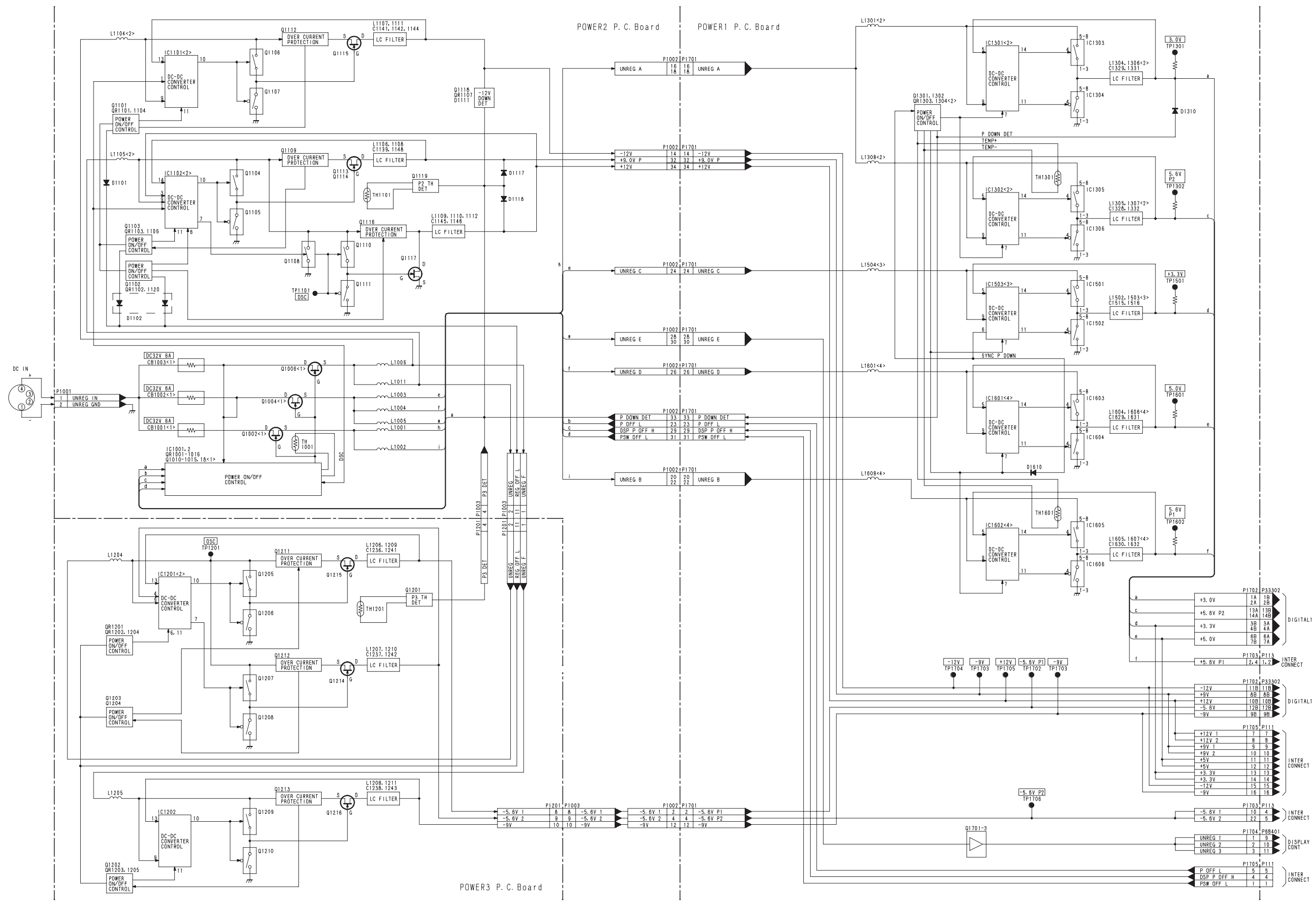


## MAIN CONTROL 2 (MAIN CONTROL) (VTR2) BLOCK DIAGRAM





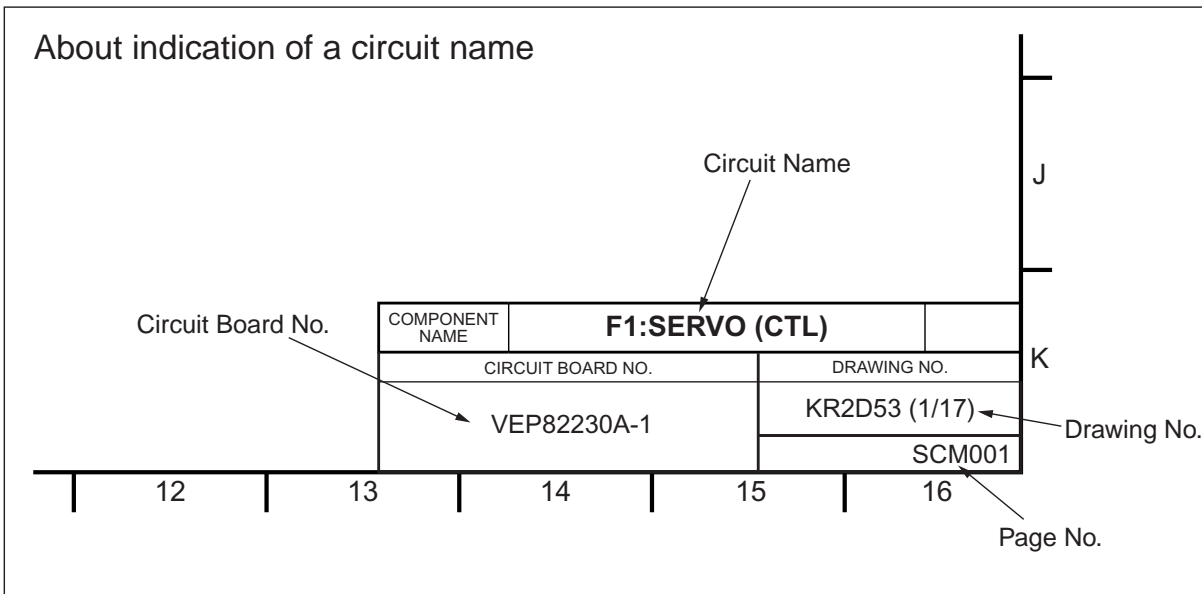
POWER (POWER 1, POWER 2 & POWER 3) (VTR1) BLOCK DIAGRAM





# SECTION 6

## SCHEMATIC DIAGRAMS




### NOTE:

BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST.

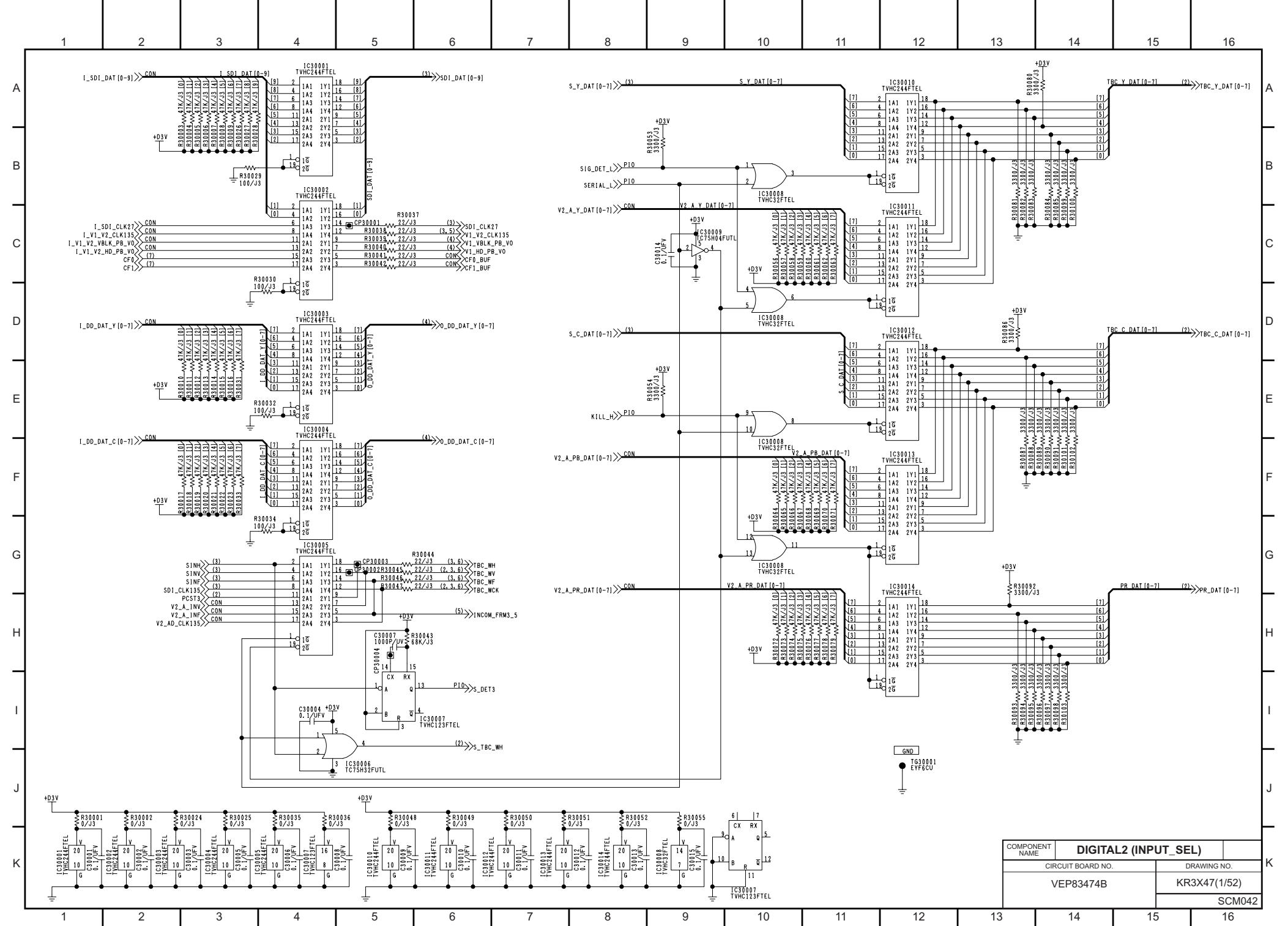
### CAUTION

THE ☐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.  
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

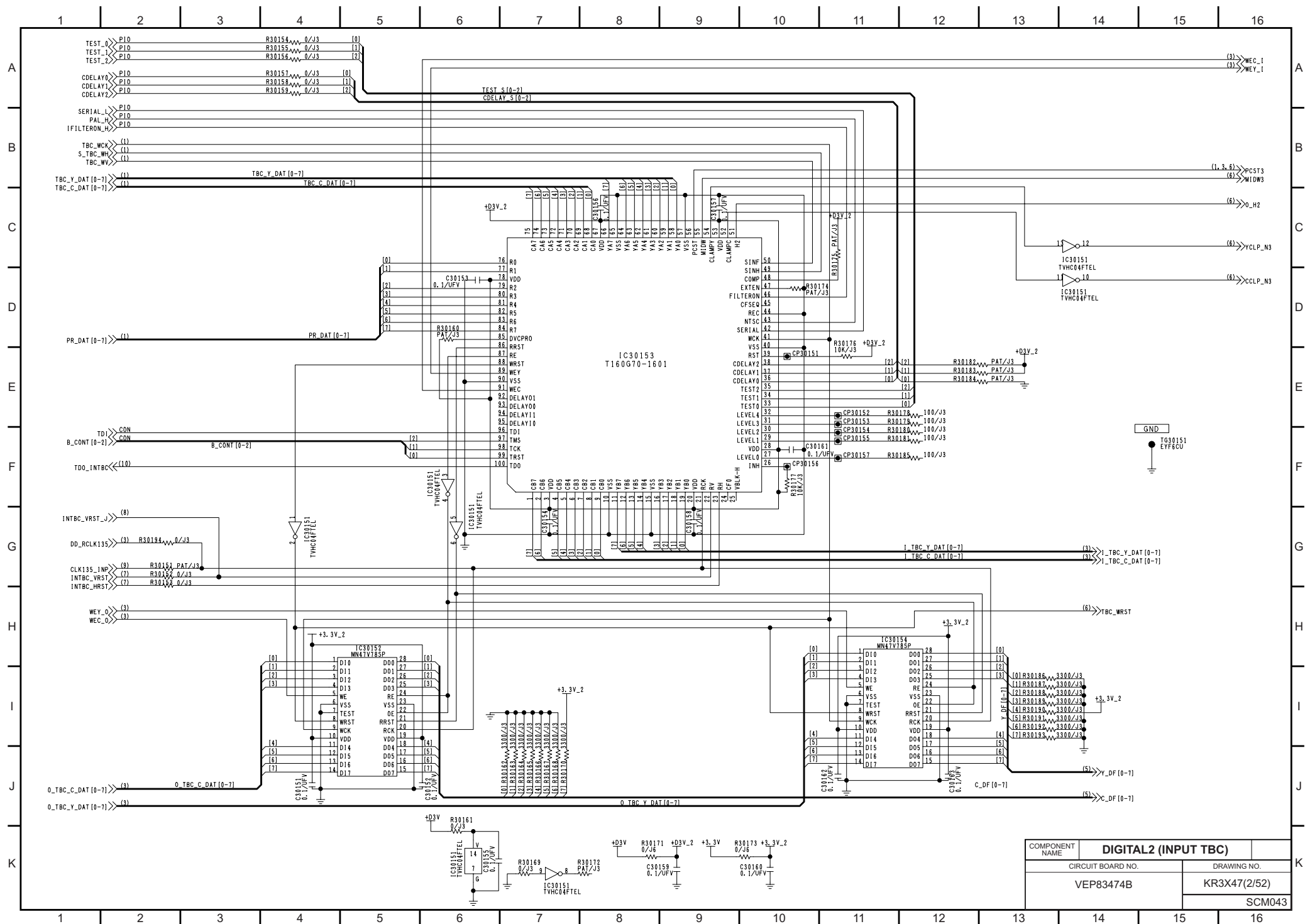
### IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.  
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

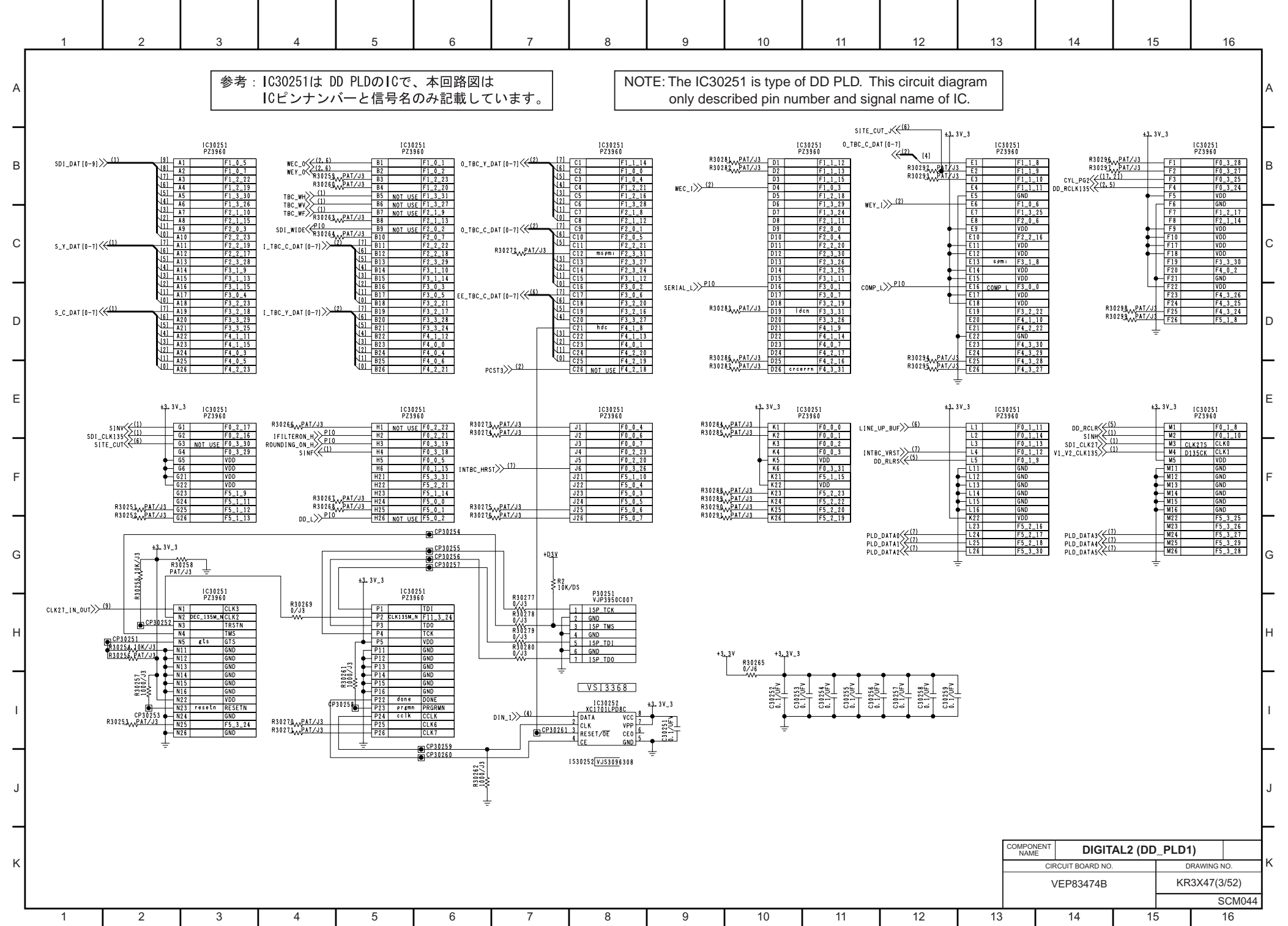








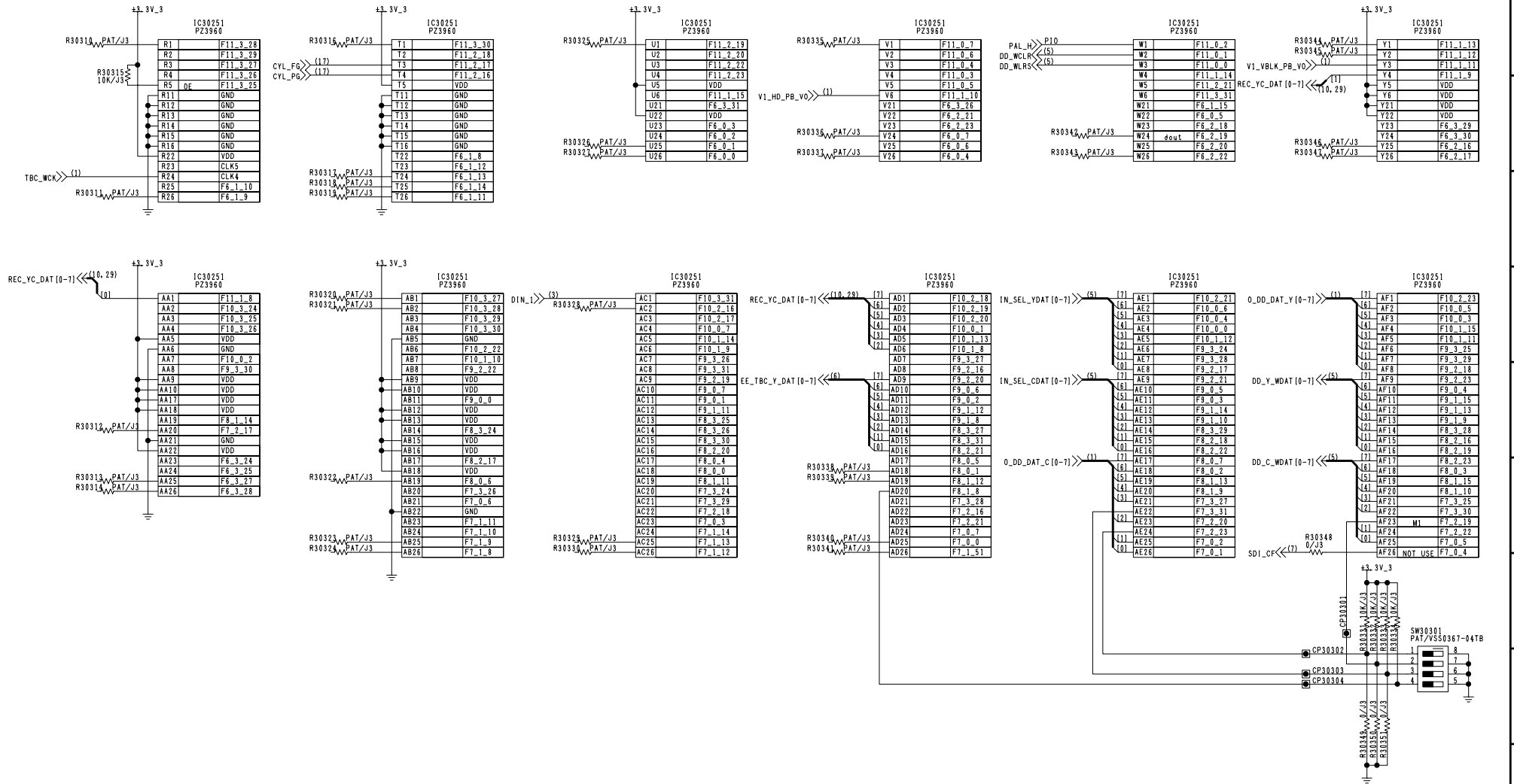






参考：IC30251は DD PLDのICで、本回路図は  
ICピンナンバーと信号名のみ記載しています。

NOTE: The IC30251 is type of DD PLD. This circuit diagram  
only described pin number and signal name of IC.

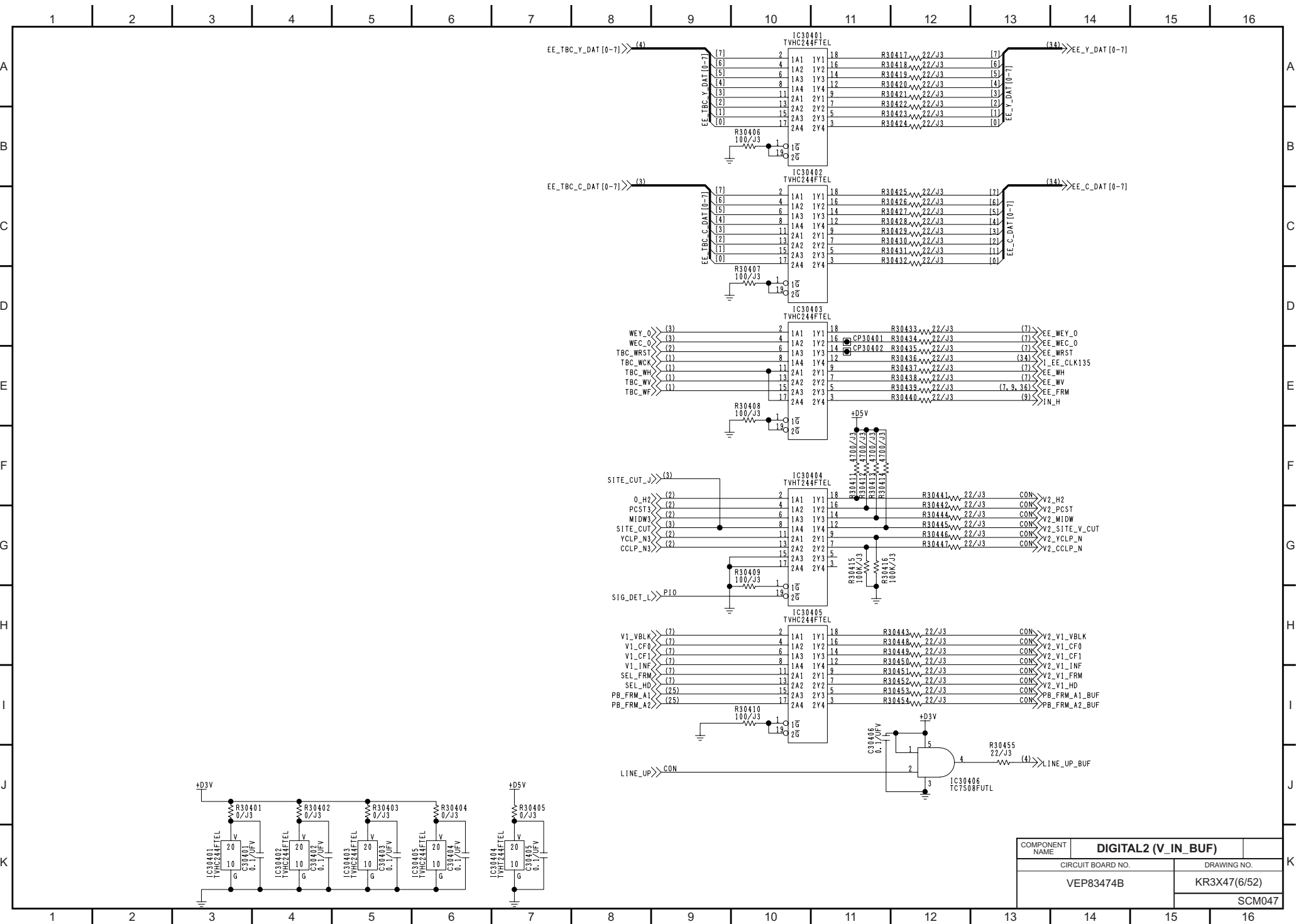


COMPONENT NAME	DIGITAL2 (DD_PLD2)
CIRCUIT BOARD NO.	DRAWING NO.
VEP83474B	KR3X47(4/52)
SCM045	





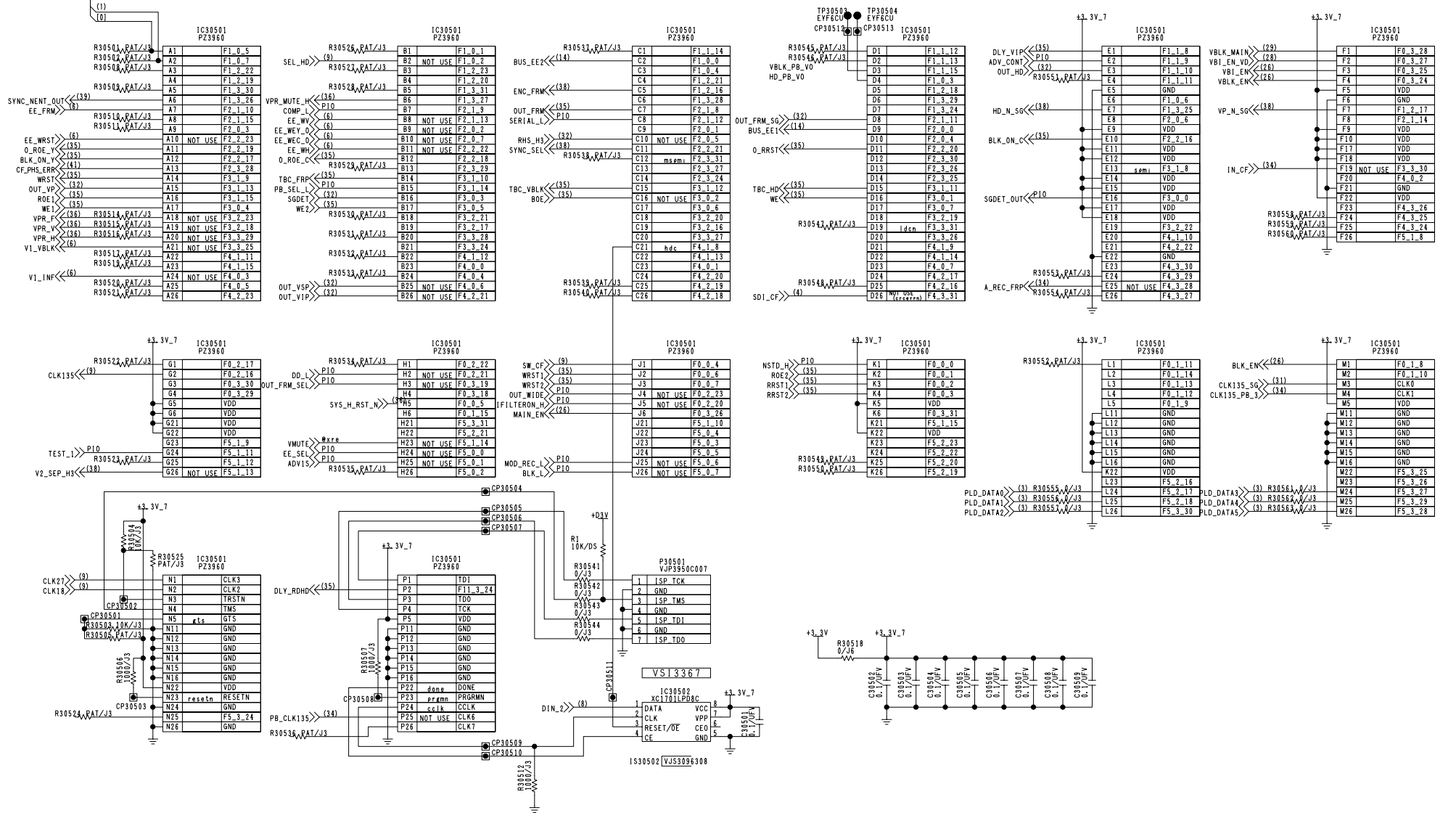






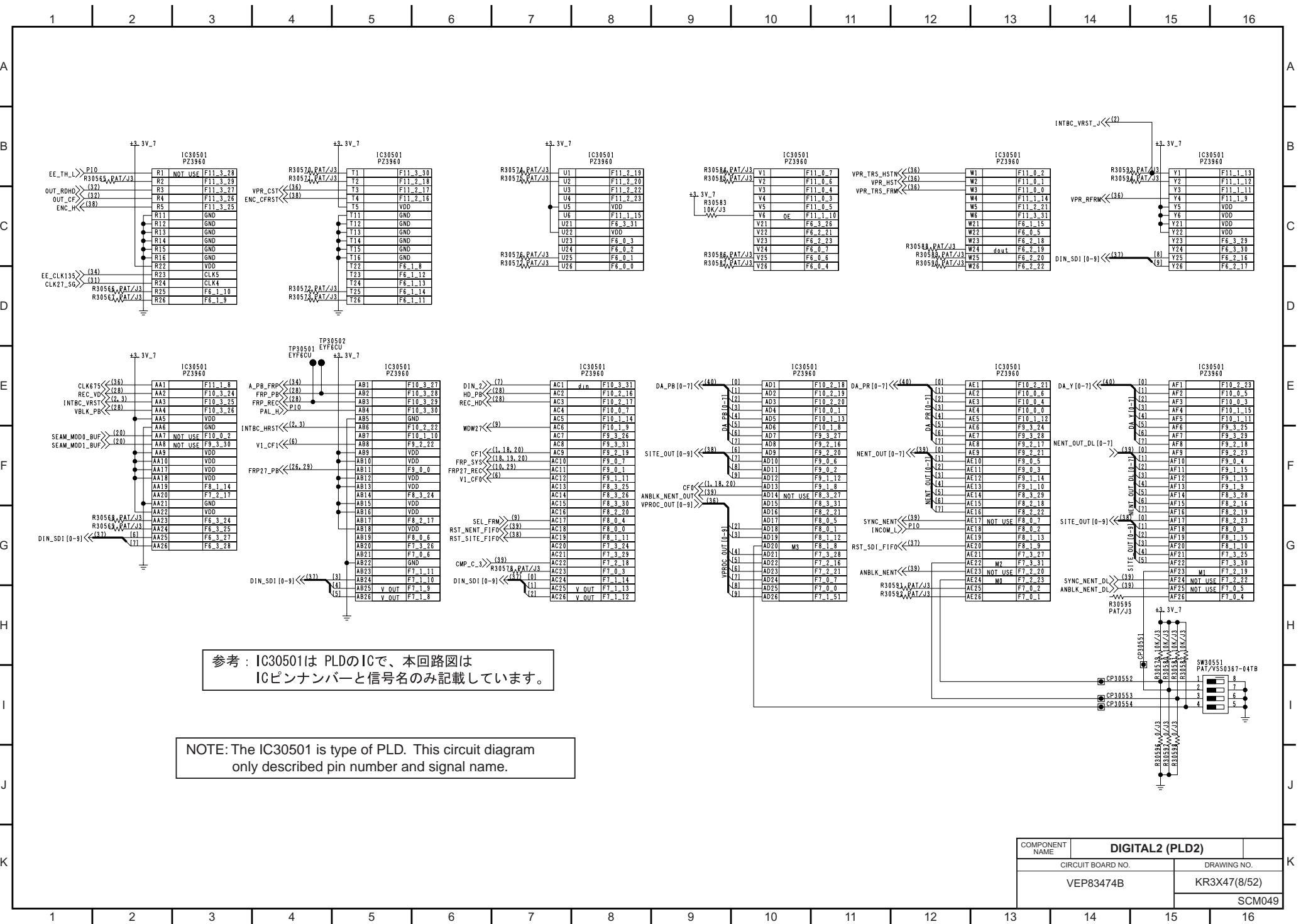
参考：IC30501は PLDのICで、本回路図は ICピンナンバーと信号名の記載しています。

NOTE: The IC30501 is type of PLD. This circuit diagram only described pin number and signal name.



COMPONENT NAME	DIGITAL2 (PLD1)
CIRCUIT BOARD NO.	DRAWING NO.
VEP83474B	KR3X47(7/52)
	SCM048



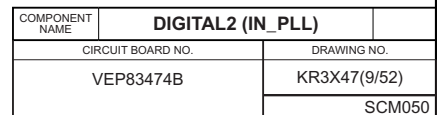


参考：IC30501は PLDのICで、本回路図は ICピンナンバーと信号名のみ記載しています。

NOTE: The IC30501 is type of PLD. This circuit diagram only described pin number and signal name.

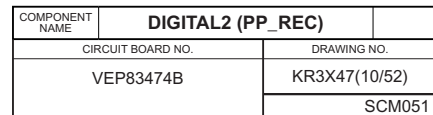
COMPONENT NAME	DIGITAL2 (PLD2)
CIRCUIT BOARD NO.	DRAWING NO.
VEP83474B	KR3X47(8/52)
SCM049	



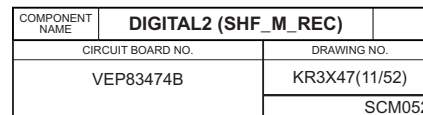


COMPONENT NAME	DIGITAL2 (IN_PLL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(9/52)
		SCM050





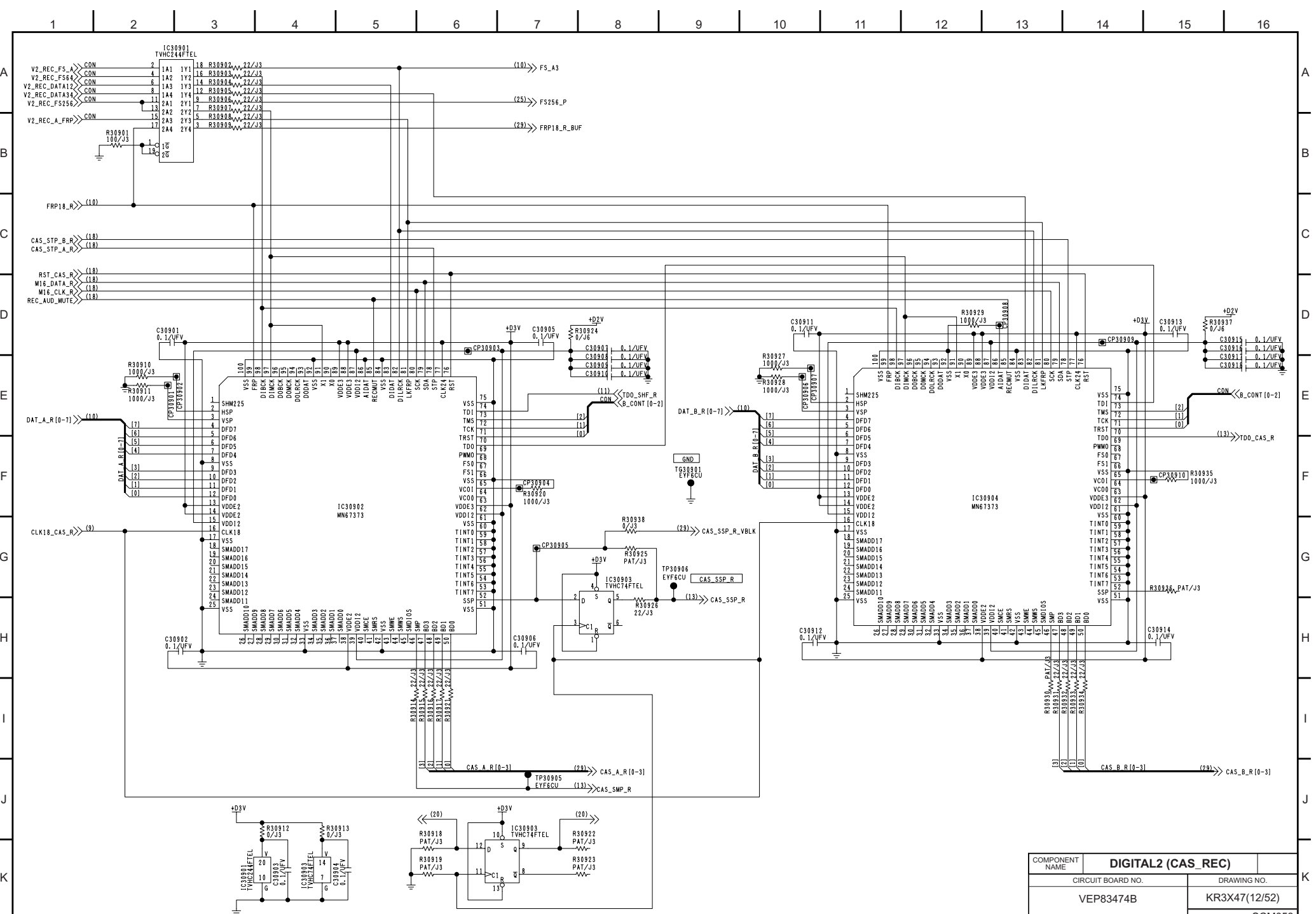




COMPONENT NAME	DIGITAL2 (SHF_M_REC)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(11/52)	
		SCM05	



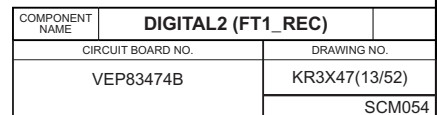
A  
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COMPONENT NAME		DIGITAL2 (CAS_REC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83747B		KR3X47(12/52)	
		SCM053	

A  
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J  
K



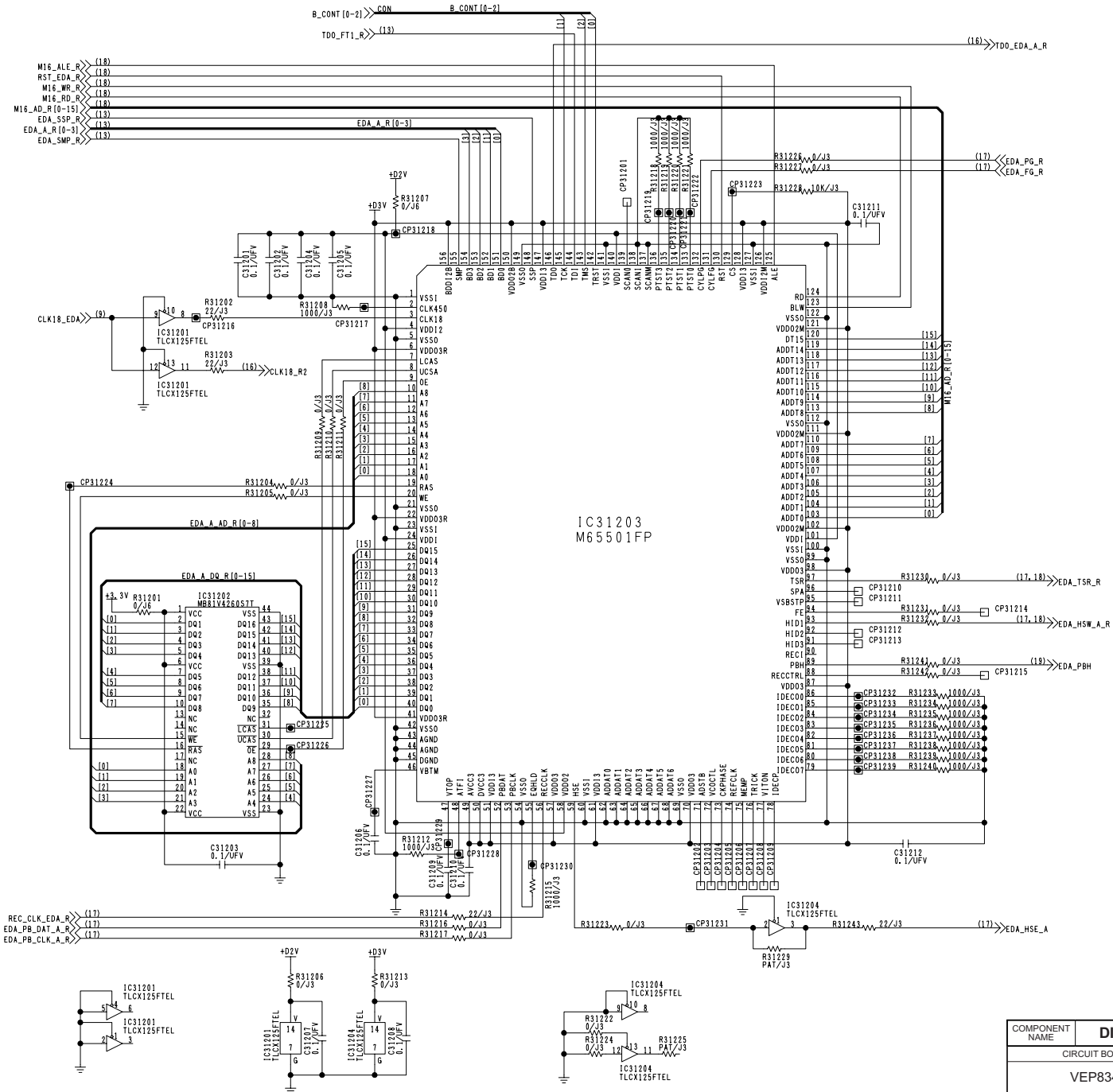


COMPONENT NAME	DIGITAL2 (FT1_REC)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(13/52)	
		SCM054	



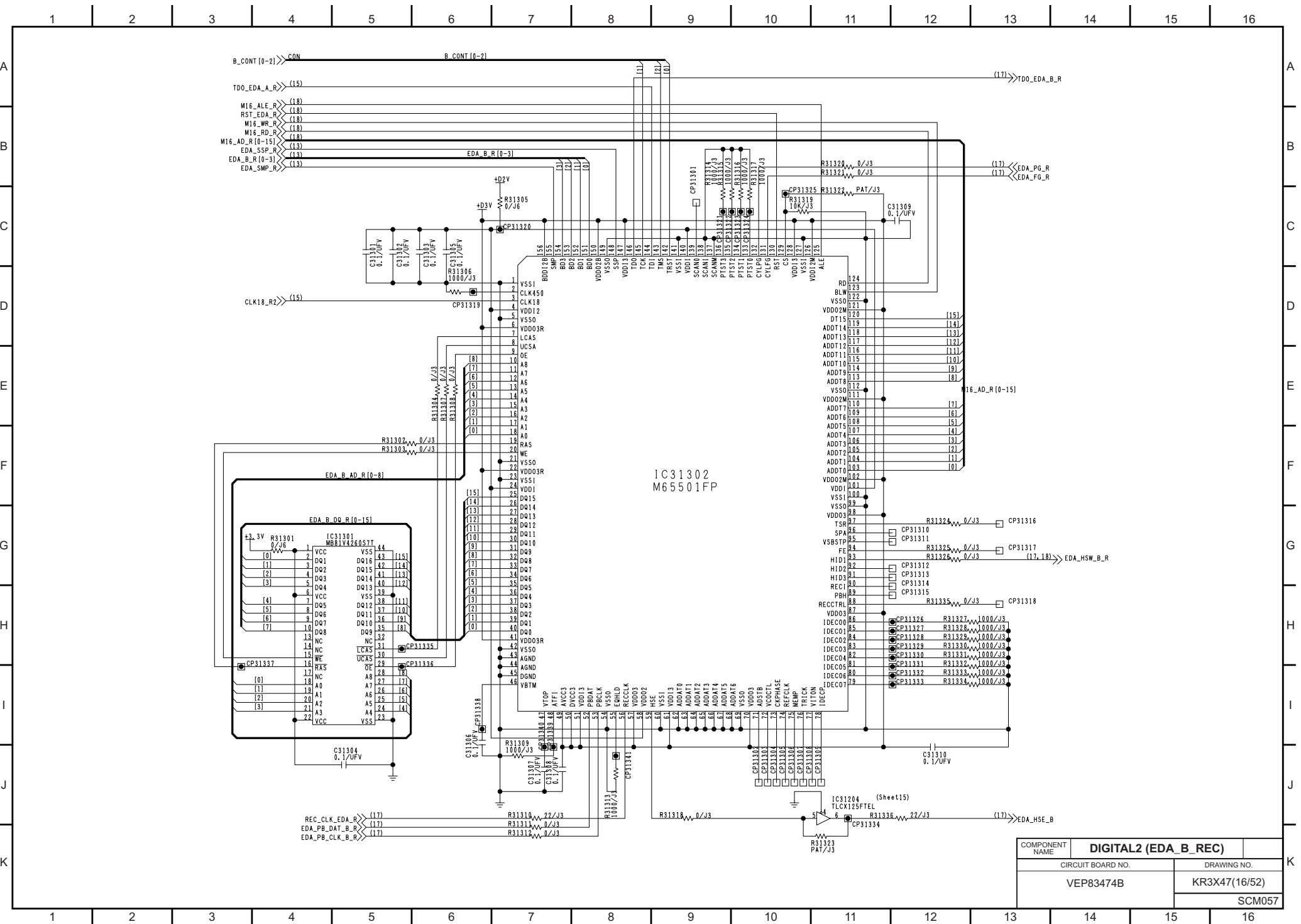






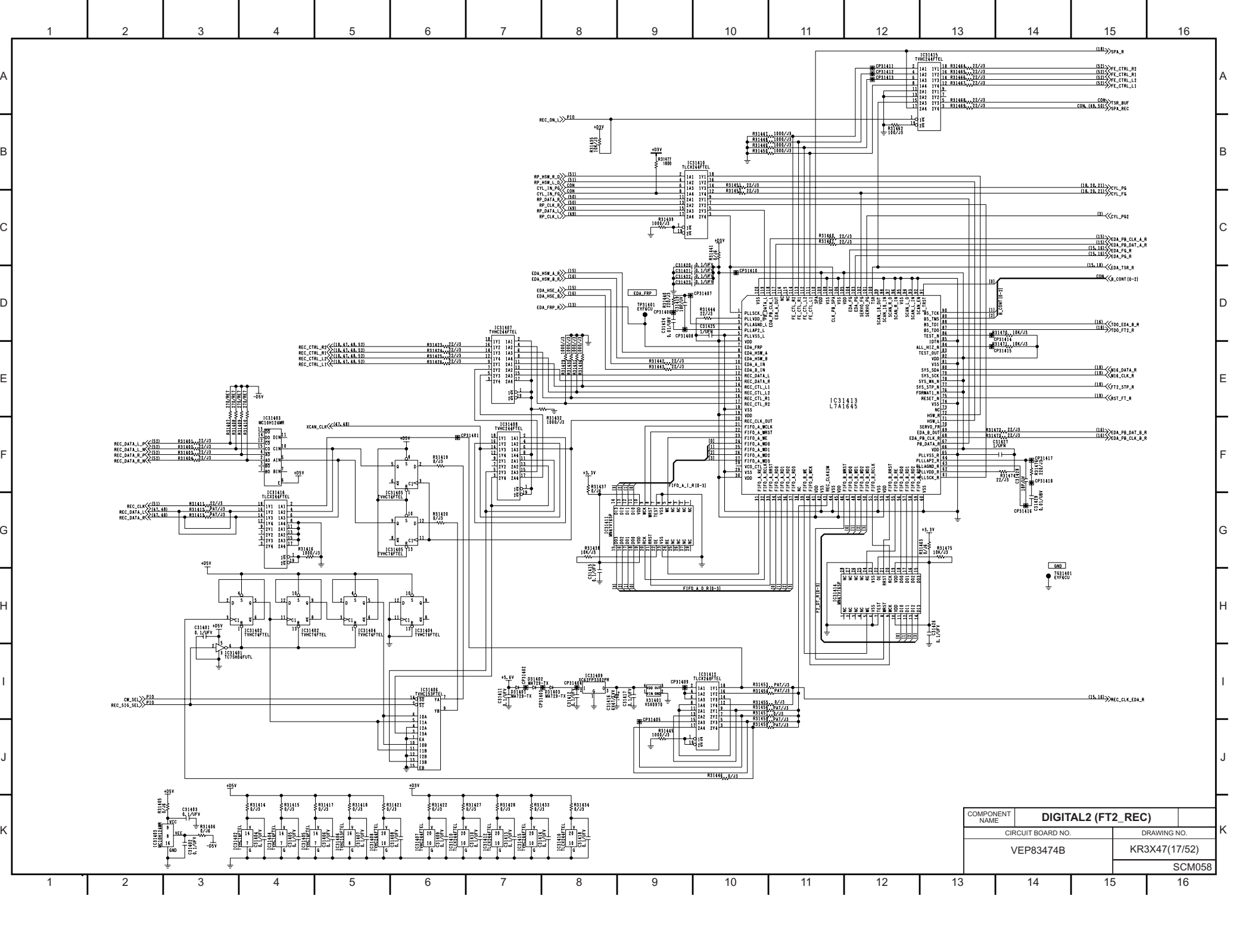
COMPONENT NAME		DIGITAL2 (EDA_A_REC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(15/52)	
		SCM056	





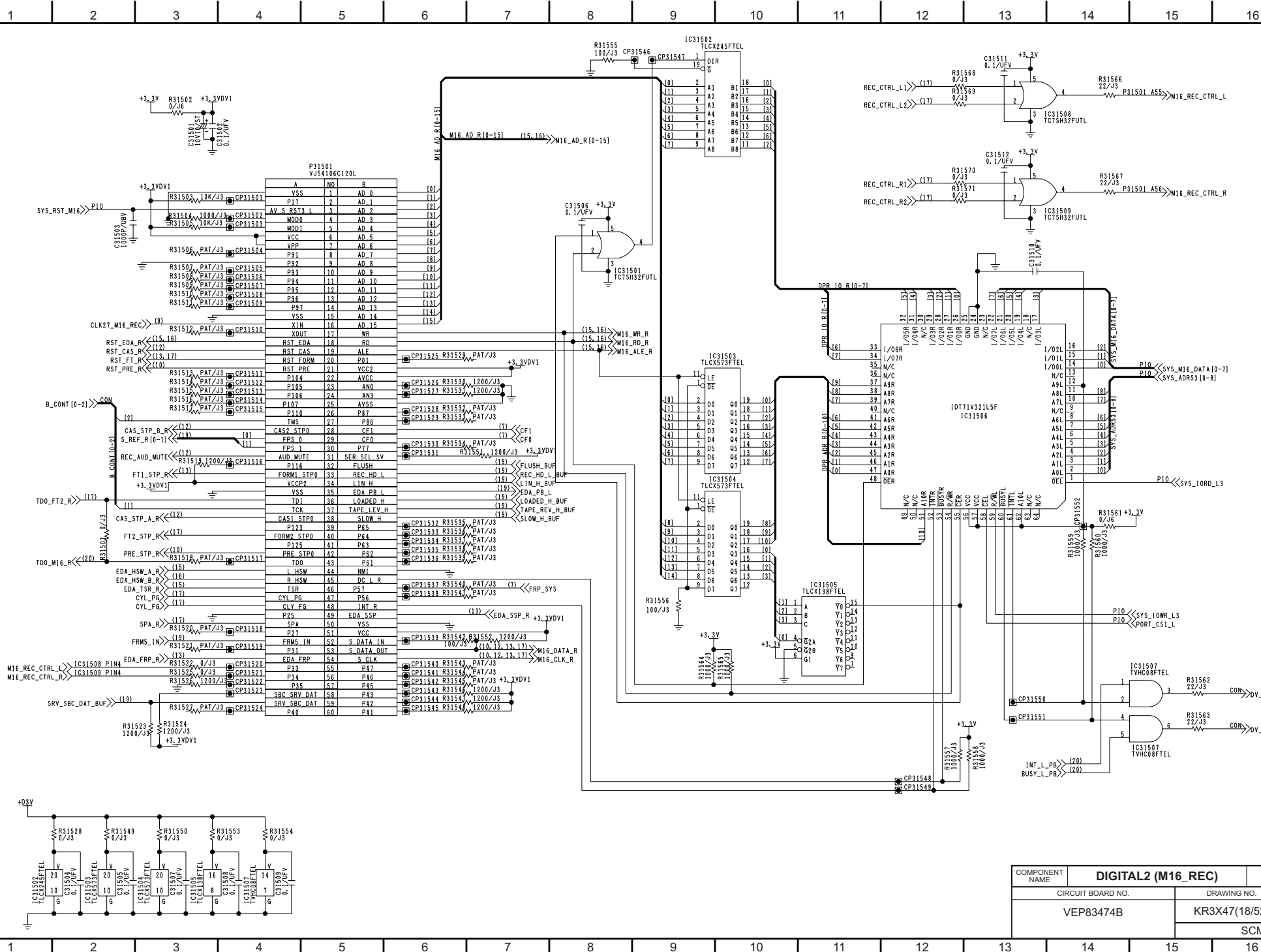
COMPONENT NAME		DIGITAL2 (EDA_B_REC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(16/52)	
		SCM057	



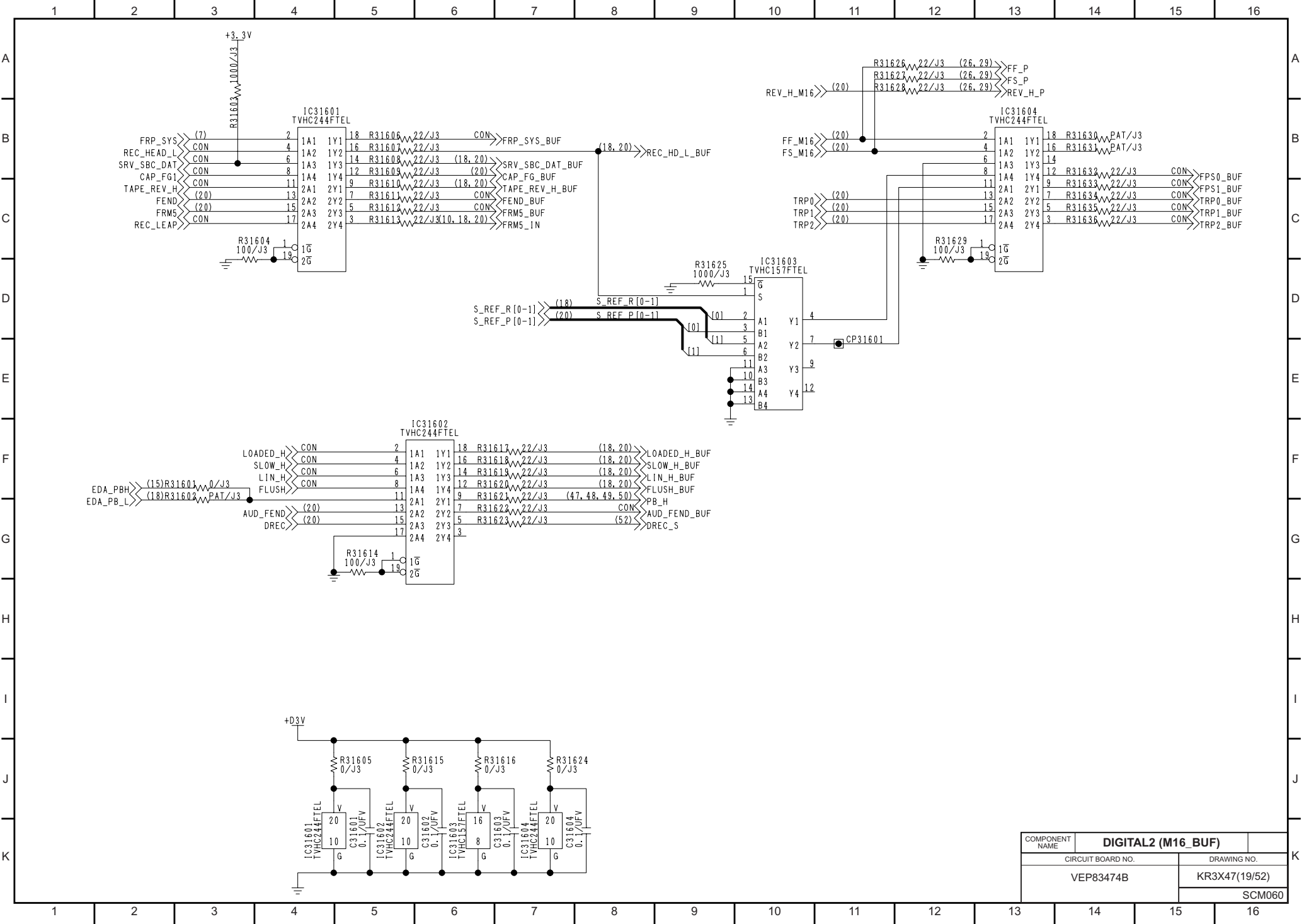


COMPONENT NAME		DIGITAL2 (FT2_REC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(17/52)	
		SCM058	

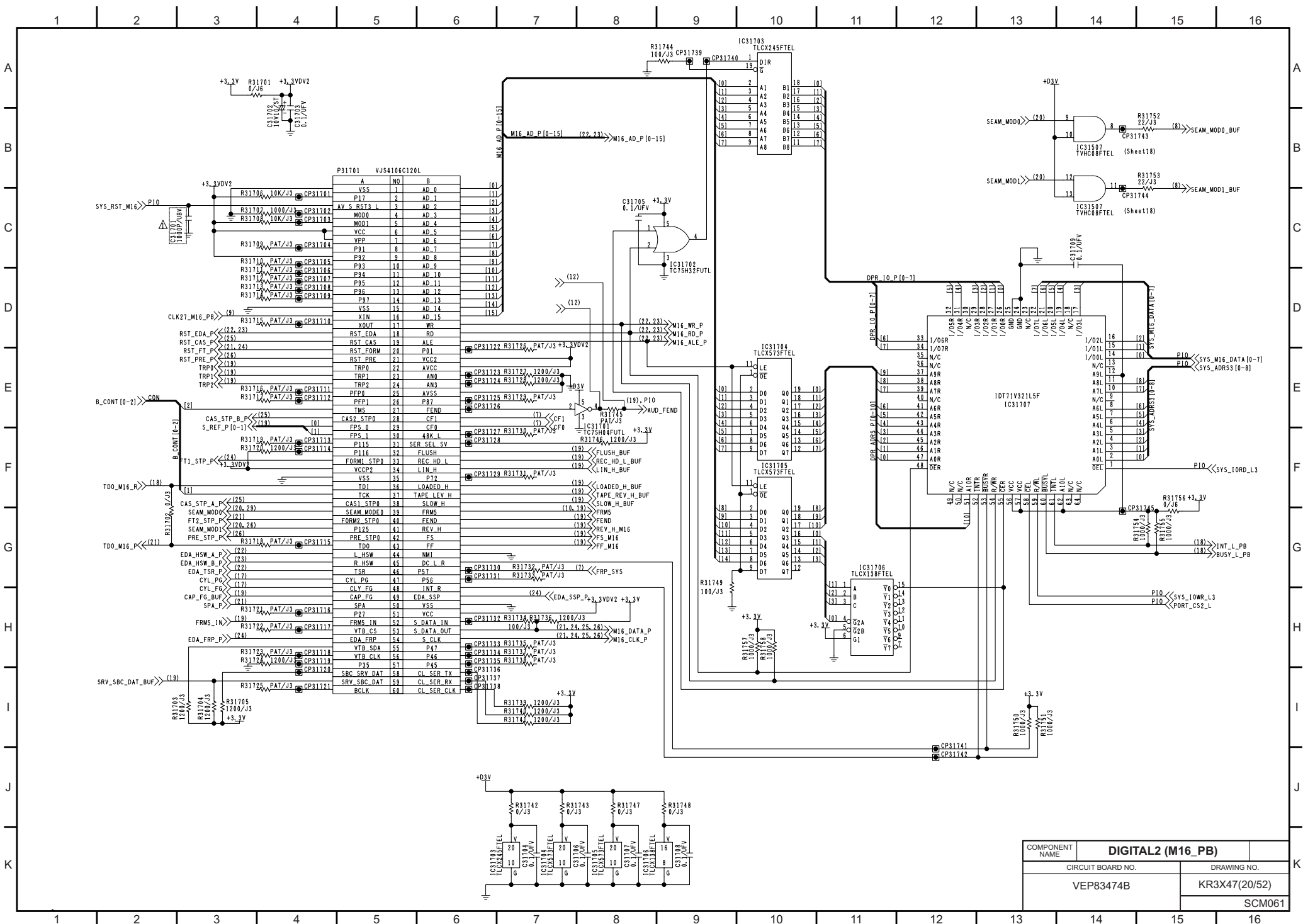




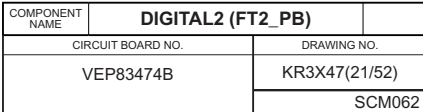






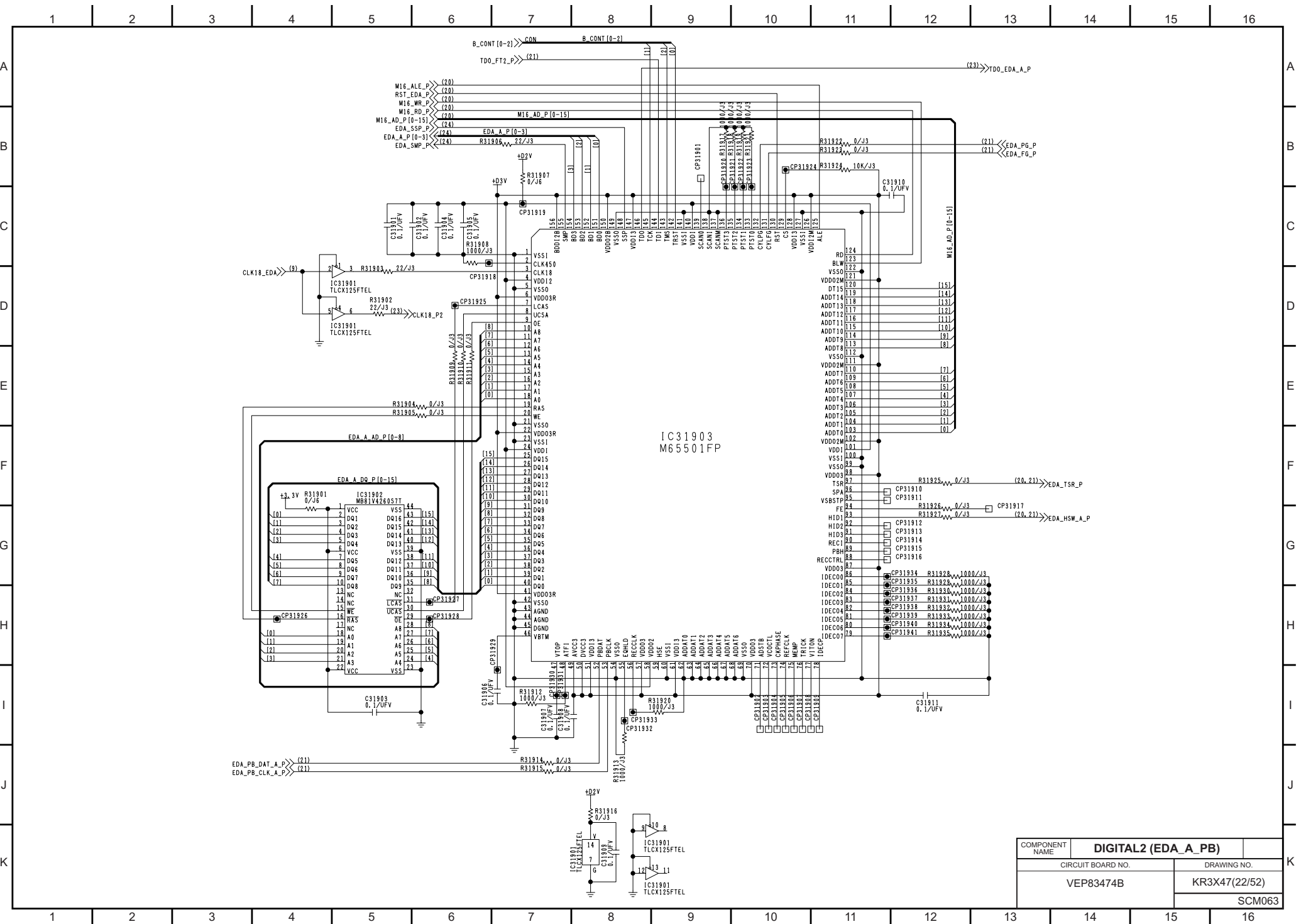






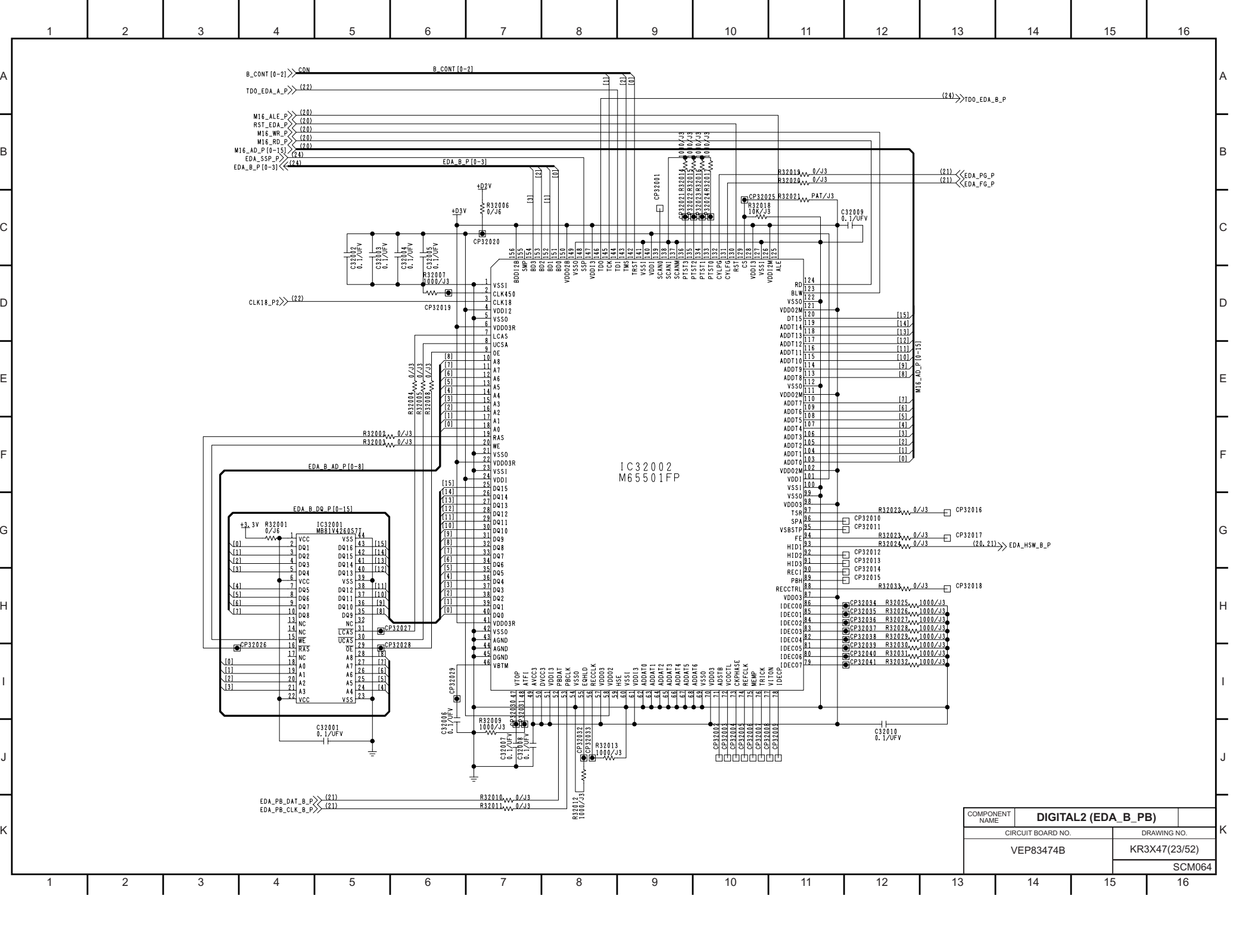
COMPONENT NAME	DIGITAL2 (FT2_PB)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83474B	KR3X47(21/52)	
	SCM062	





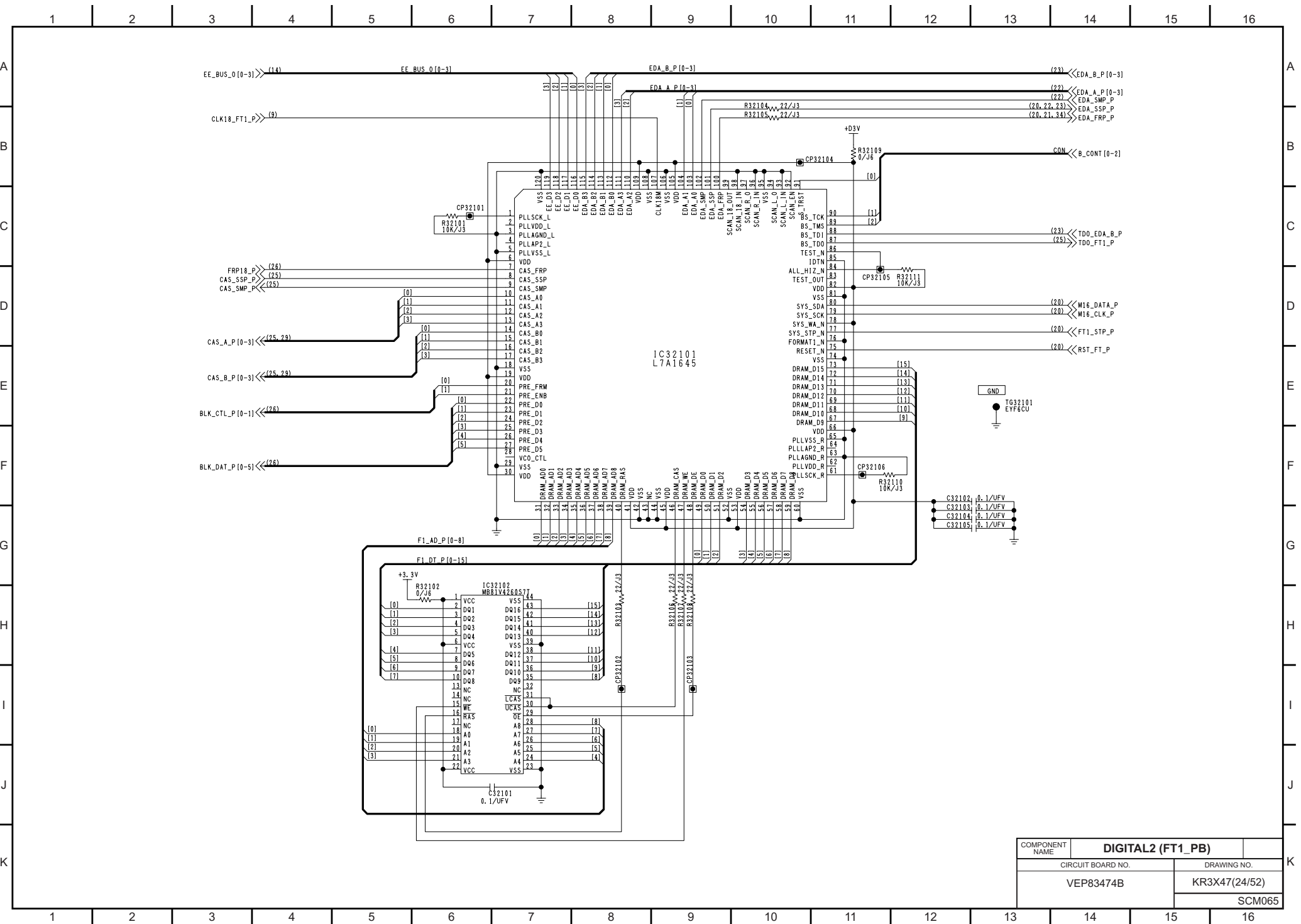
COMPONENT NAME	DIGITAL2 (EDA_A_PB)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83474B	KR3X47(22/52)	
	SCM063	





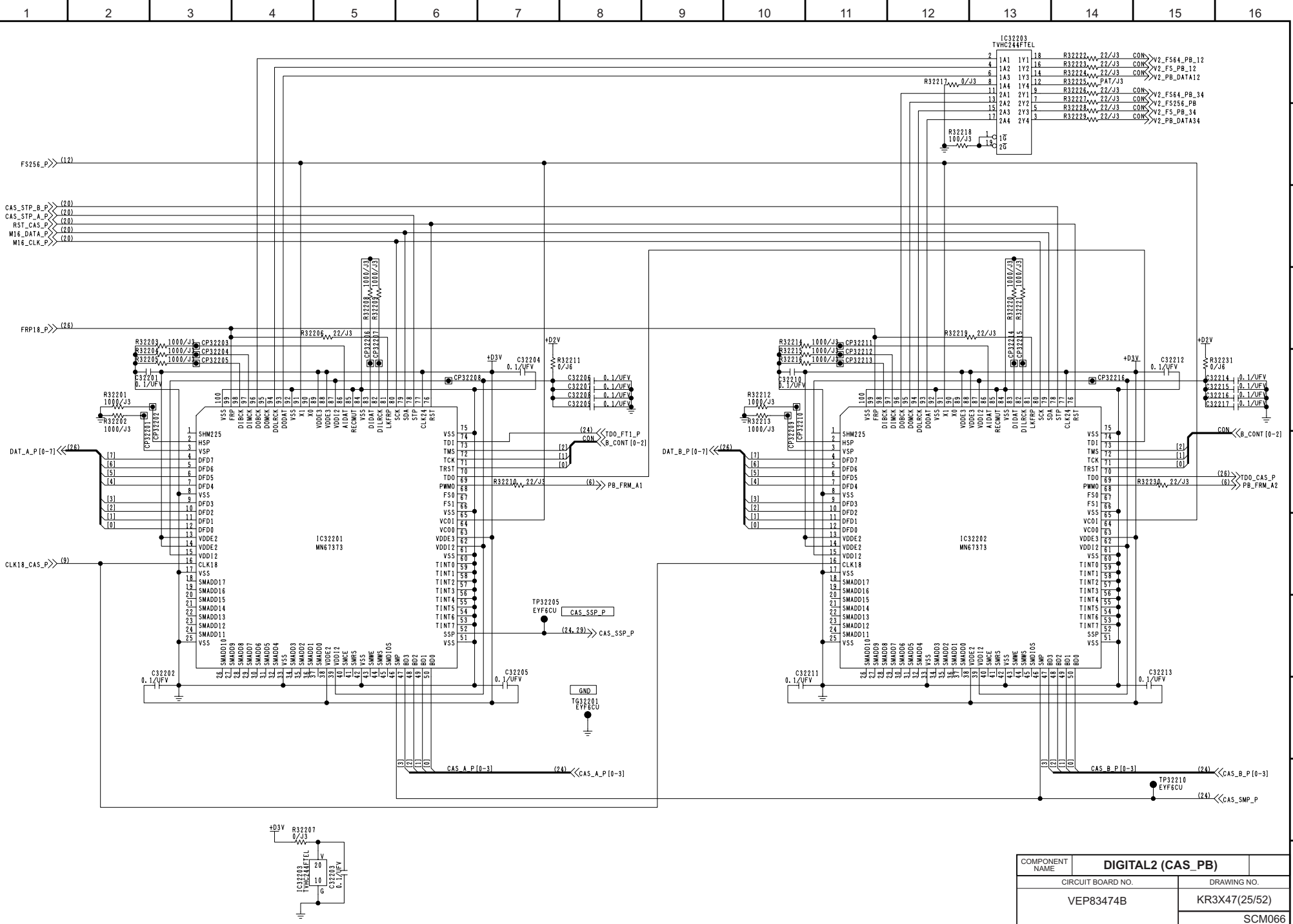
COMPONENT NAME	DIGITAL2 (EDA_B_PB)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(23/52)	
		SCM064	





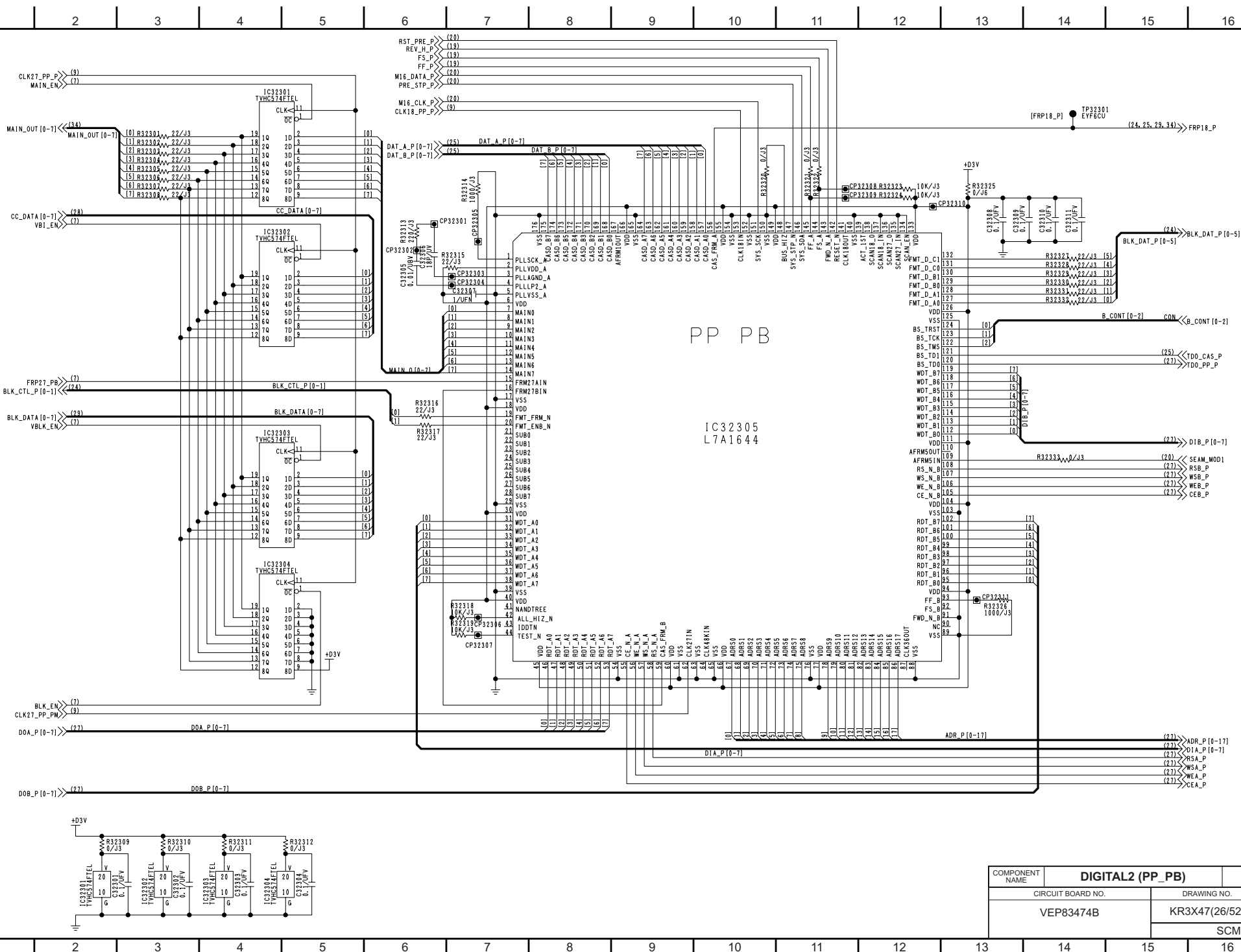
COMPONENT NAME		DIGITAL2 (FT1_PB)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(24/52)	
		SCM065	





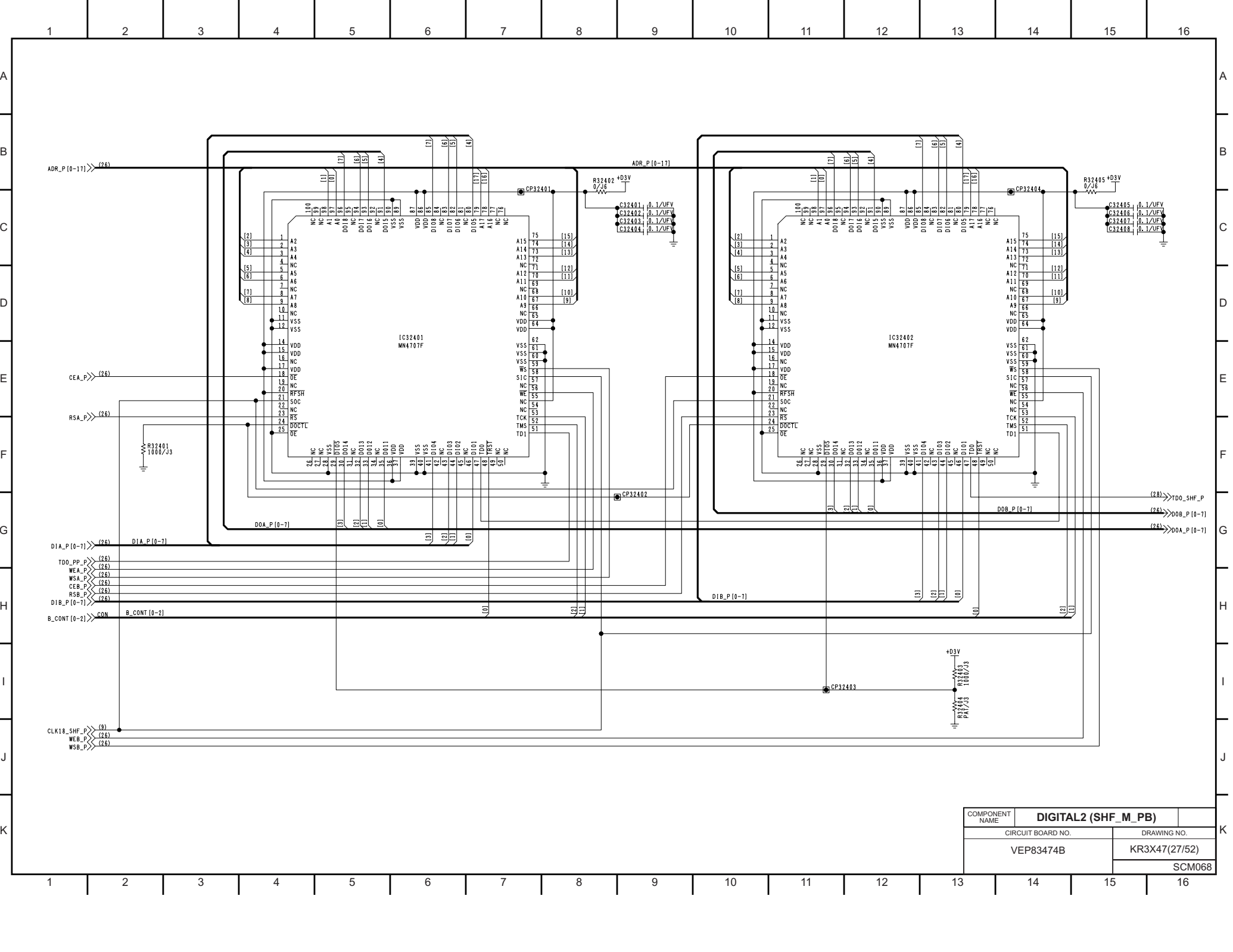
COMPONENT NAME	DIGITAL2 (CAS_PB)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83474B	KR3X47(25/52)	
	SCM066	





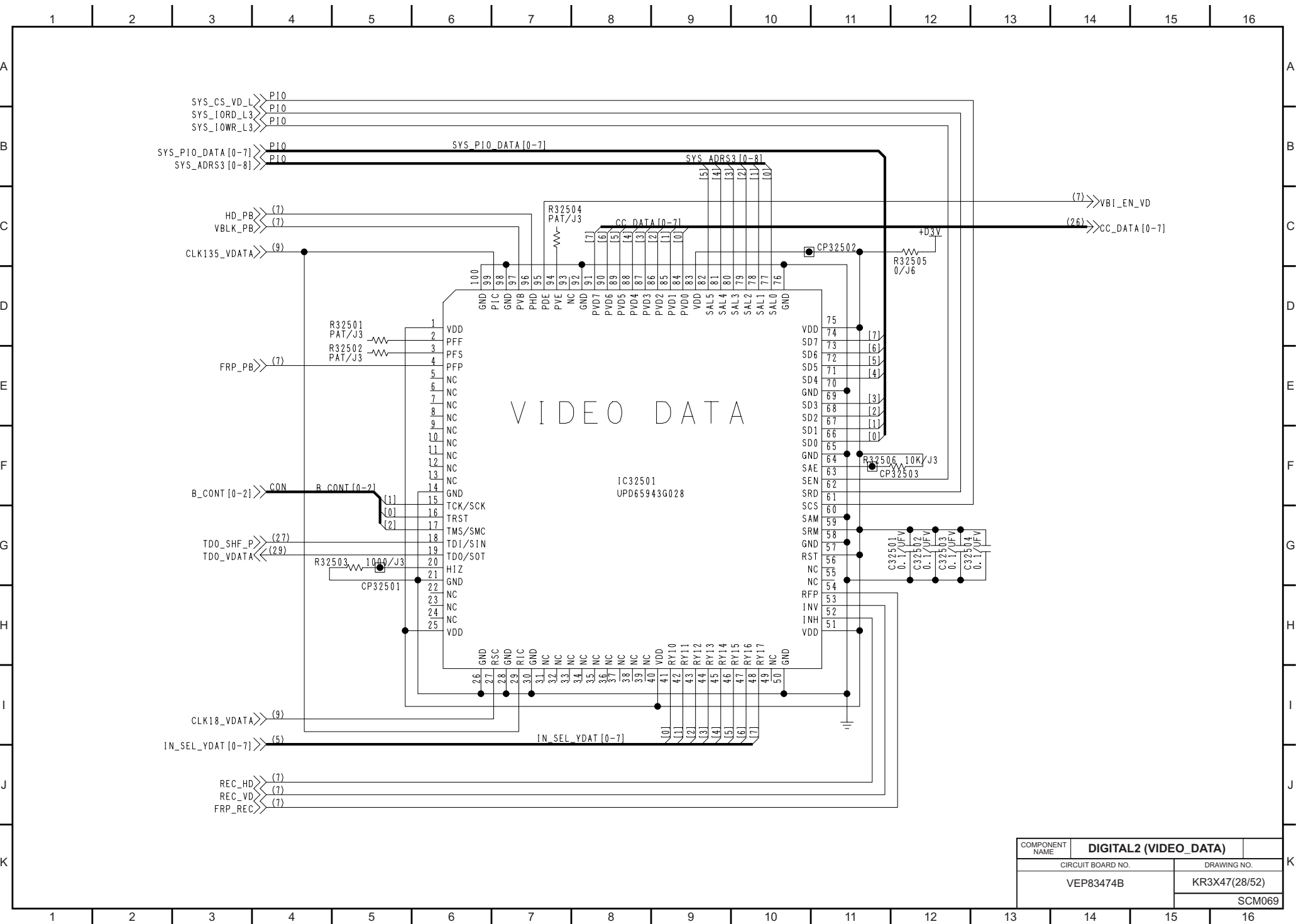
COMPONENT NAME	DIGITAL2 (PP_PB)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(26/52)
		SCM067



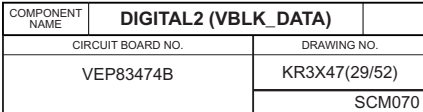


COMPONENT NAME	DIGITAL2 (SHF_M_PB)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(27/52)
		SCM068

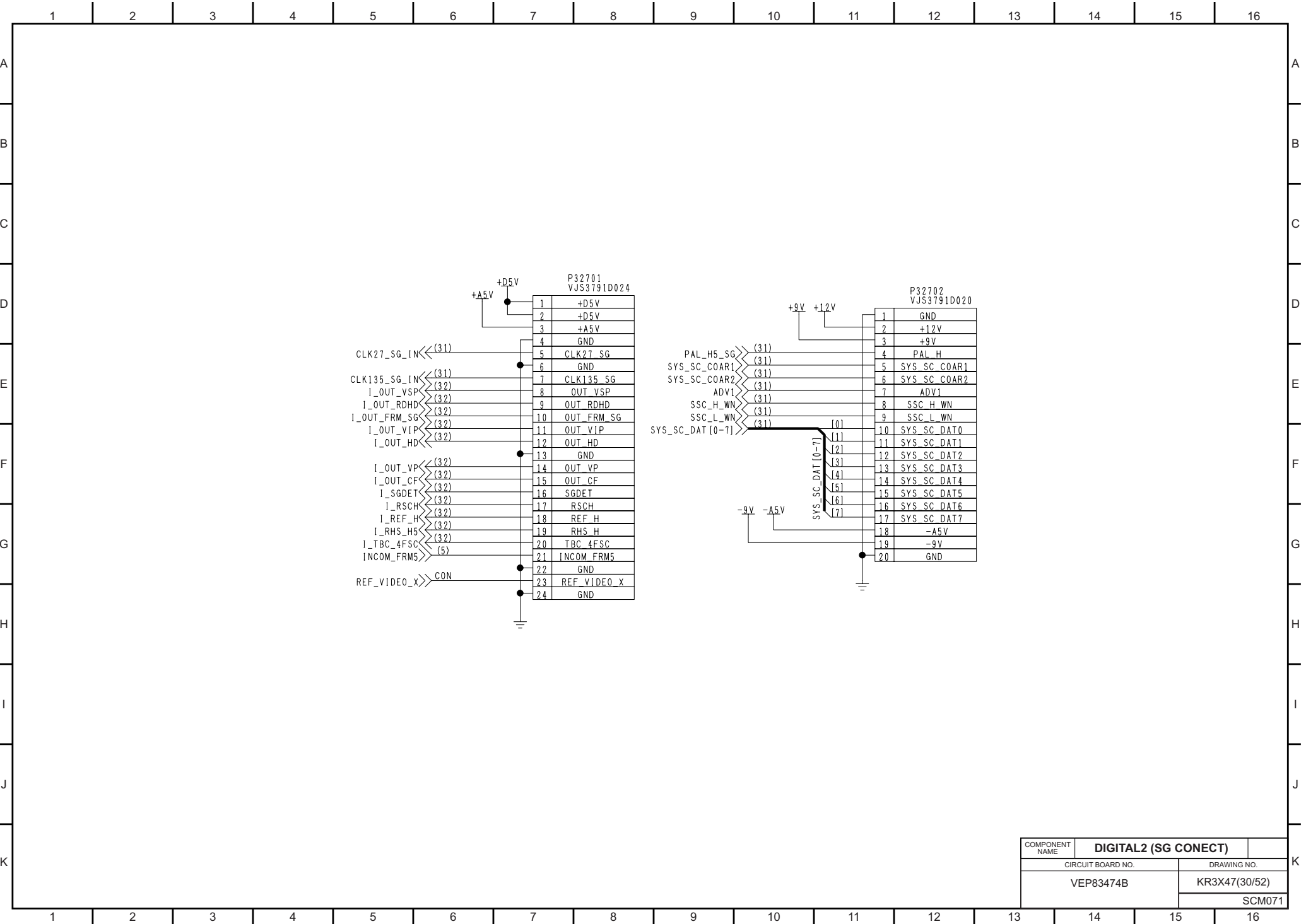






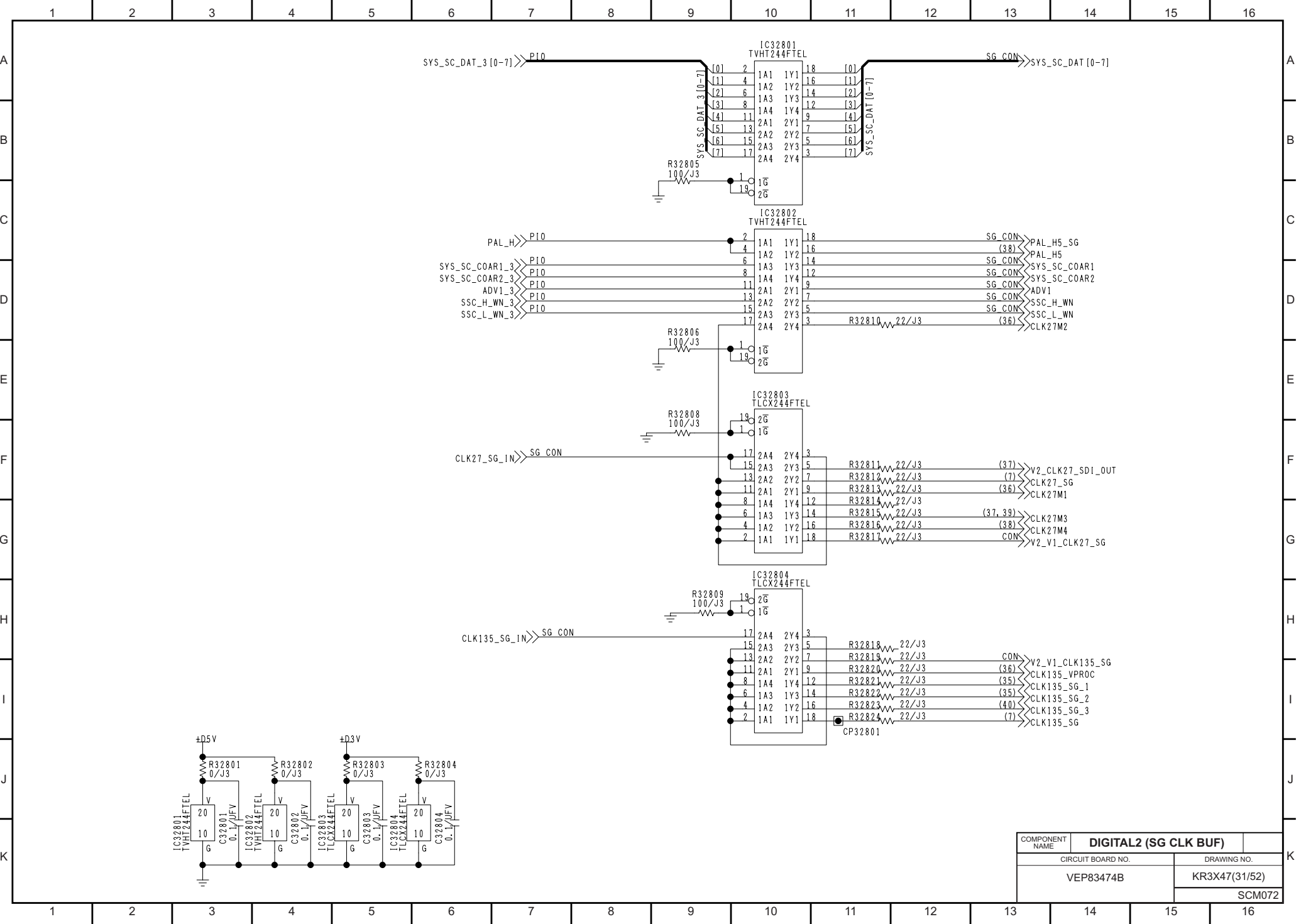






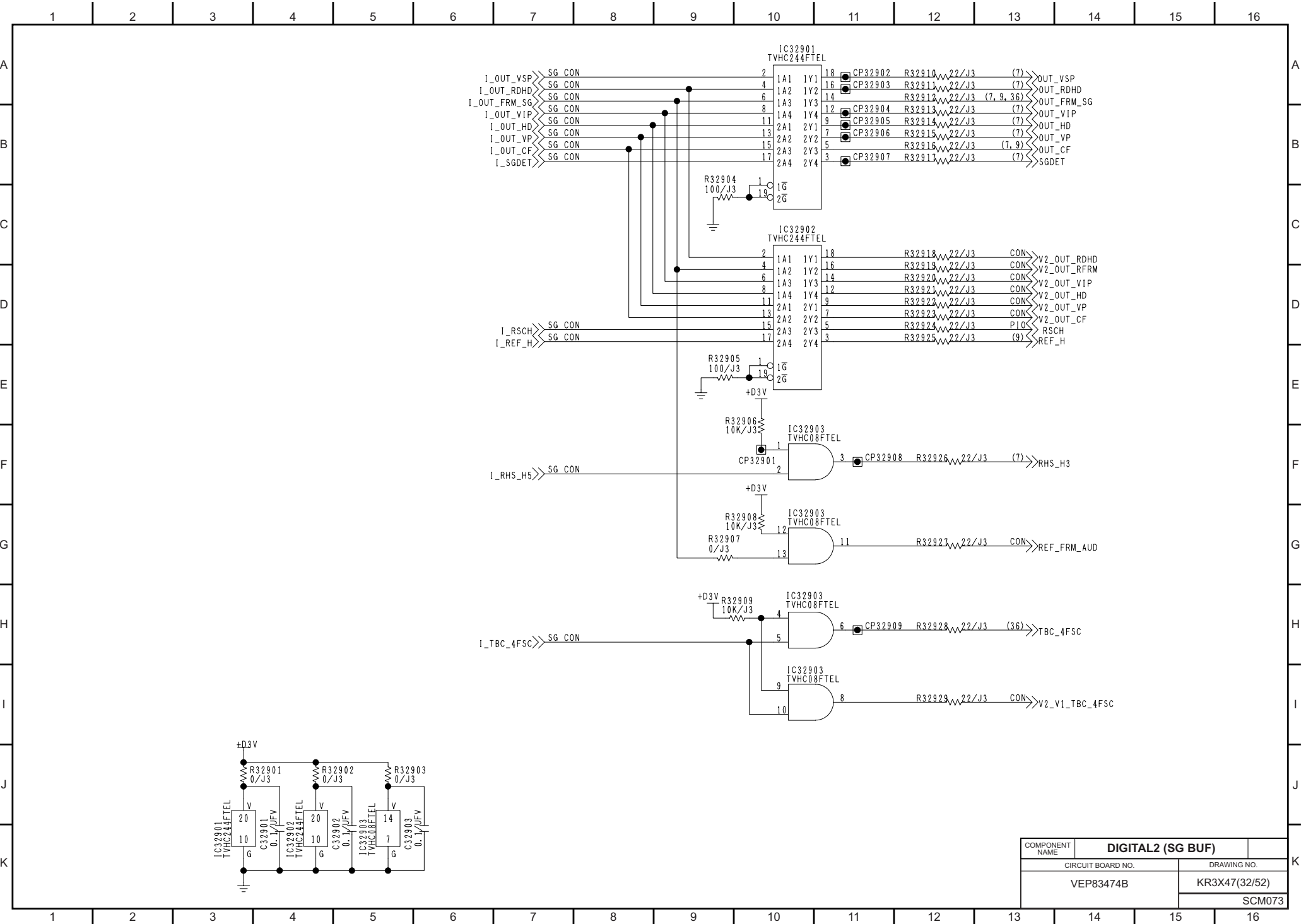
COMPONENT NAME	DIGITAL2 (SG CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(30/52)
SCM071		





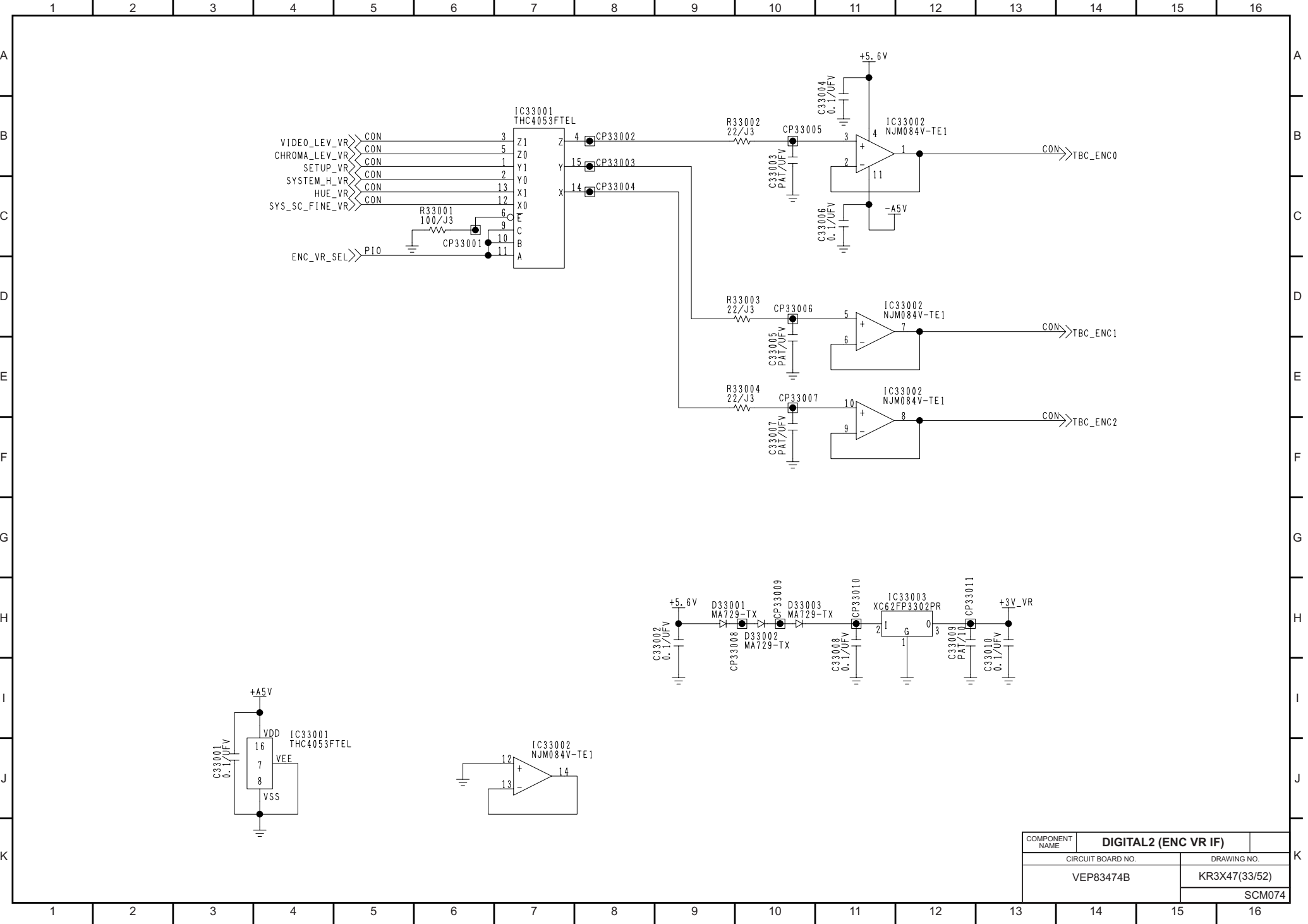
COMPONENT NAME	DIGITAL2 (SG CLK BUF)	
CIRCUIT BOARD NO.	VEP83474B	
DRAWING NO.	KR3X47(31/52)	
	SCM072	





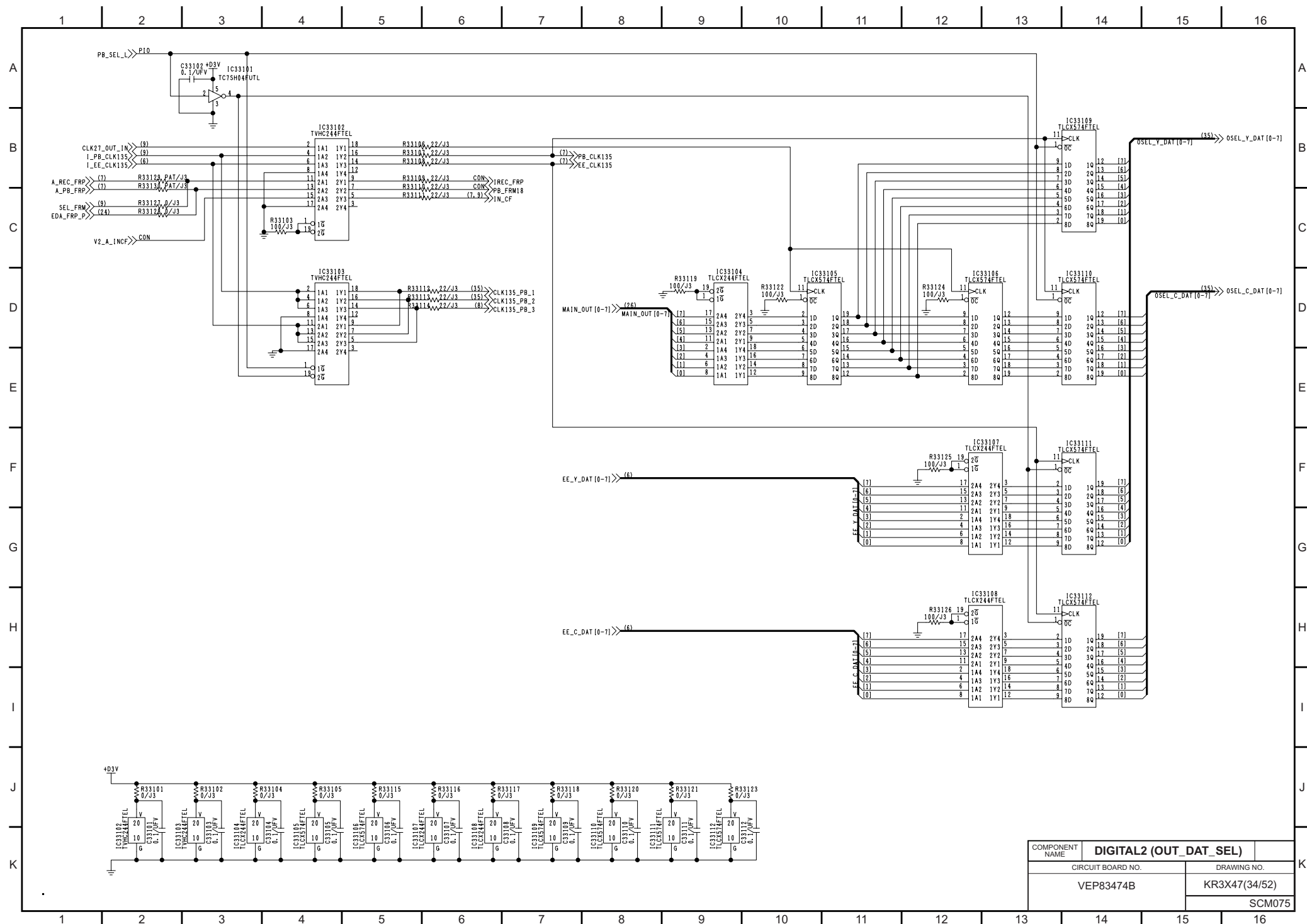
COMPONENT NAME		DIGITAL2 (SG BUF)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP3474B		KR3X47(32/52)	
		SCM073	





COMPONENT NAME	DIGITAL2 (ENC VR IF)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(33/52)	
		SCM074	

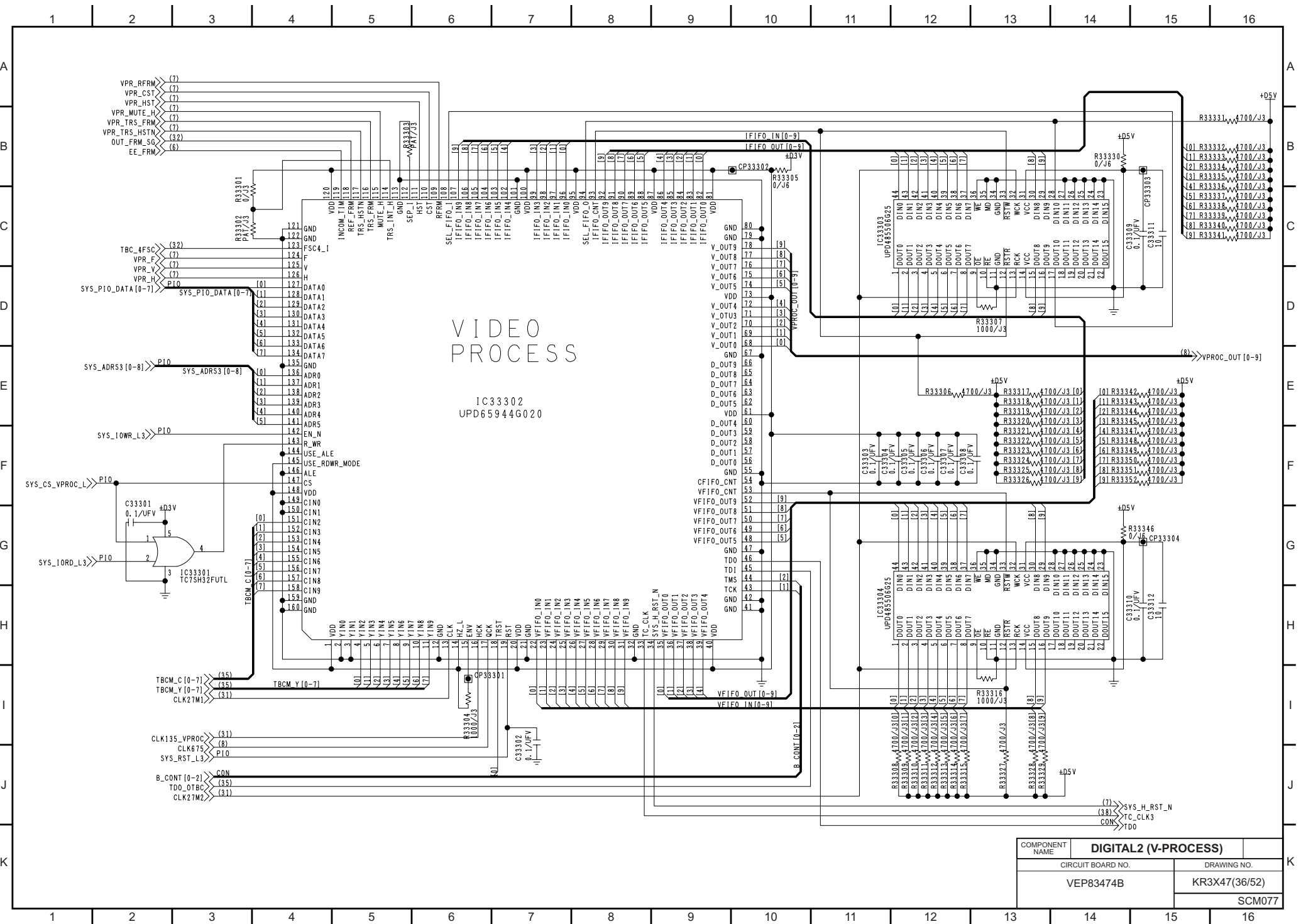




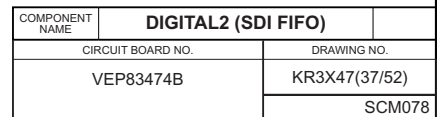




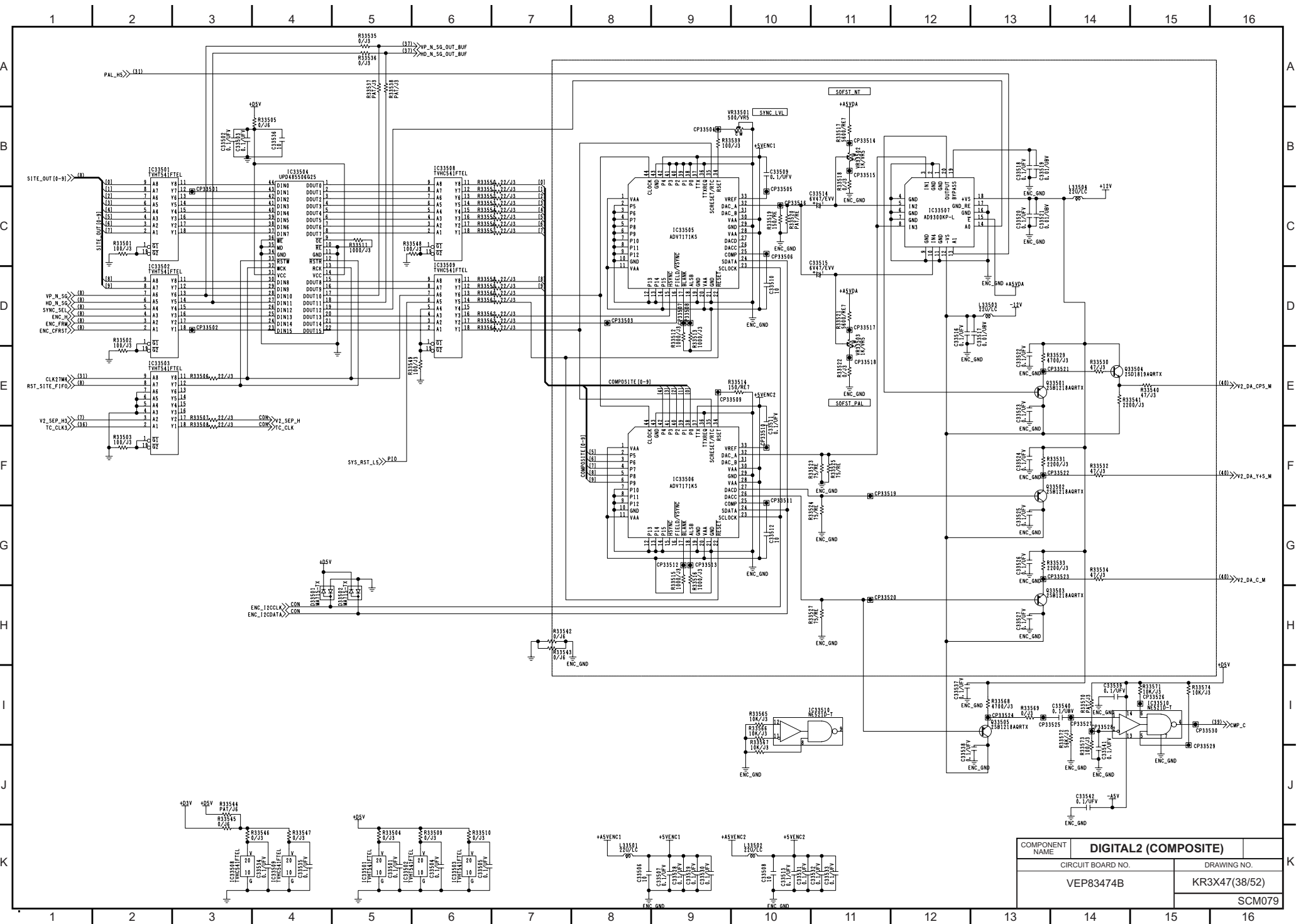






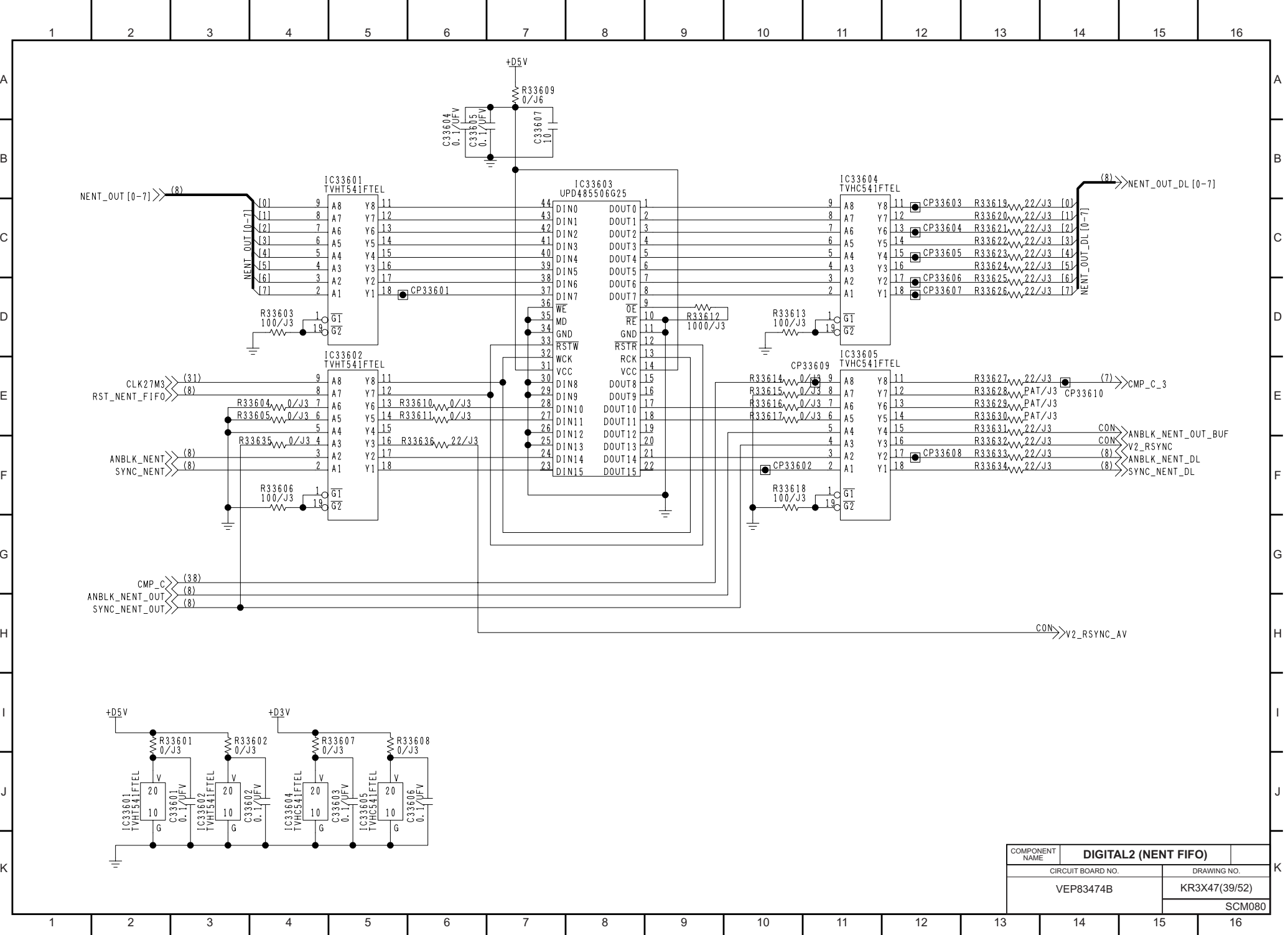






COMPONENT NAME		DIGITAL2 (COMPOSITE)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83747B		KR3X47(38/52)	
		SCM079	



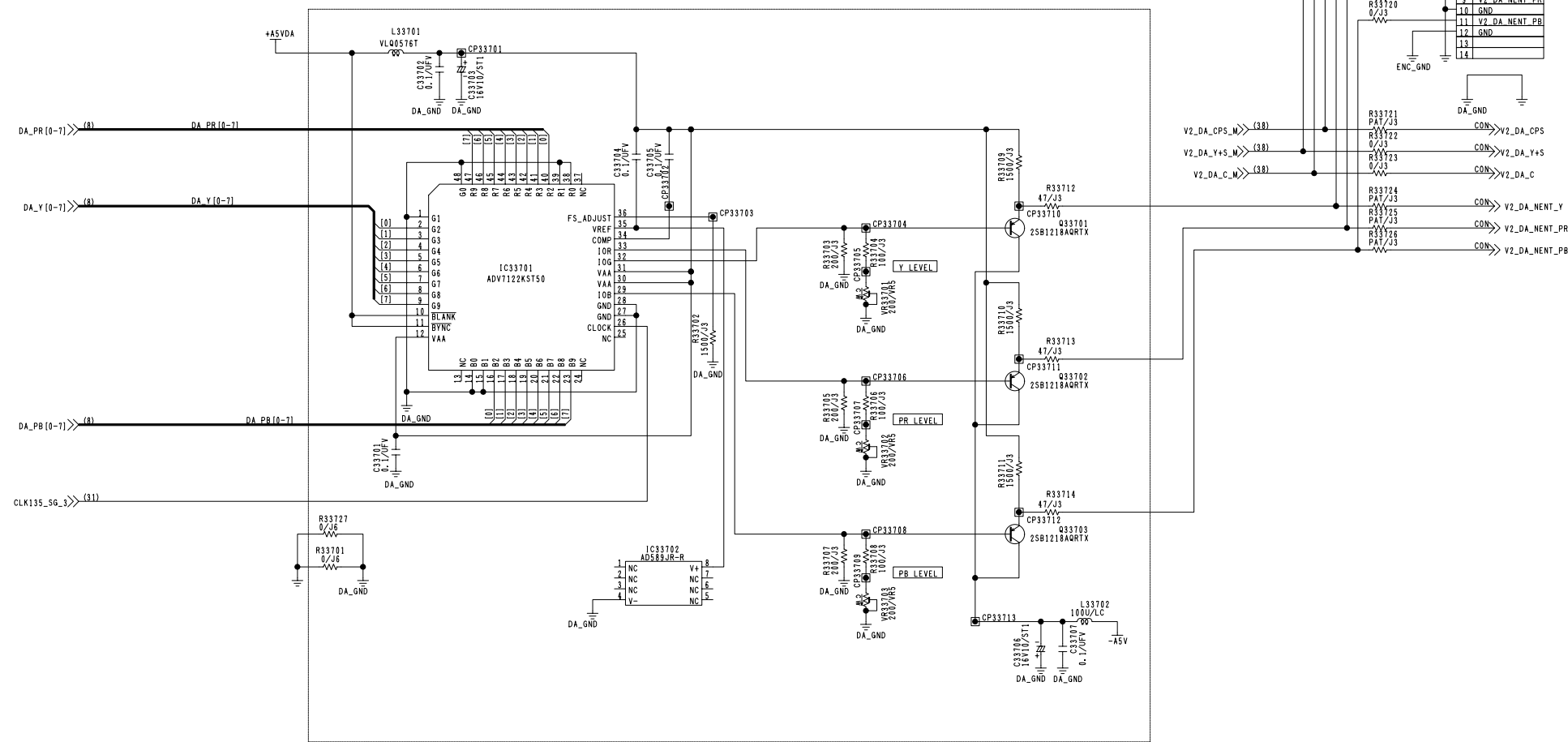


COMPONENT NAME	DIGITAL2 (NENT FIFO)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(39/52)	
		SCM080	



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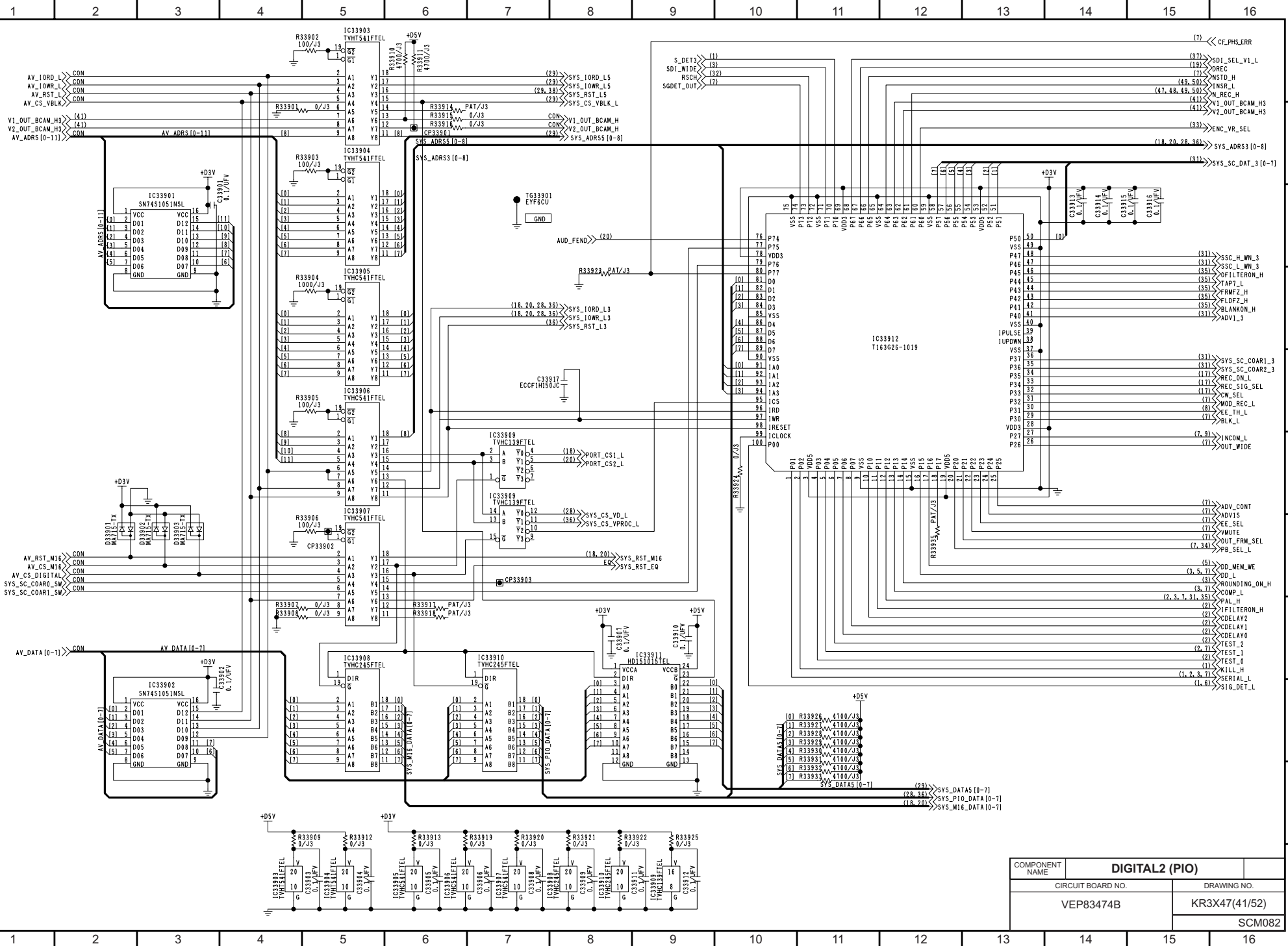
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



COMPONENT NAME		DIGITAL2 (NENT D/A)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(40/52)	
		SCM081	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



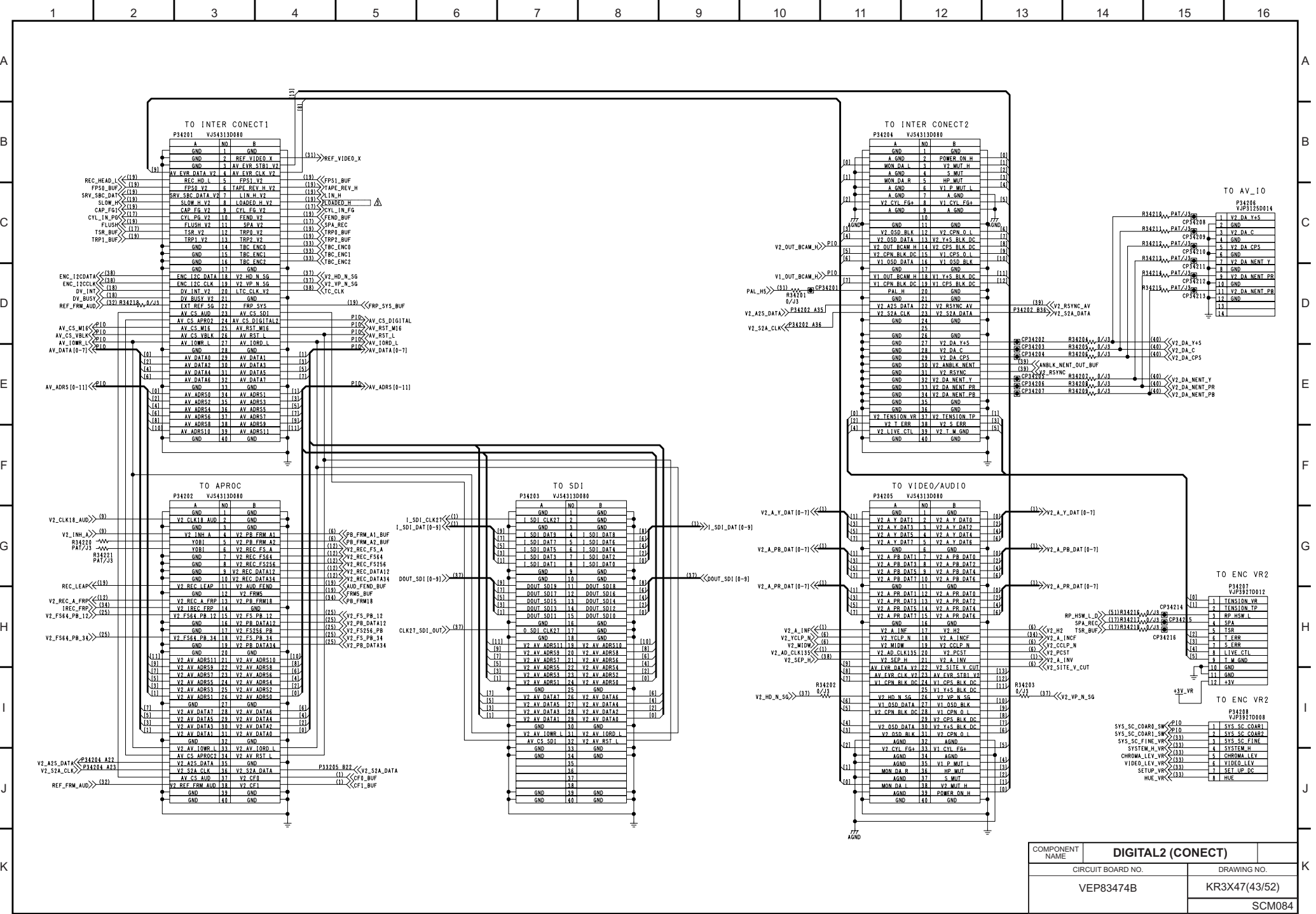


COMPONENT NAME	<b>DIGITAL2 (PIO)</b>		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(41/52)	
		SCM082	



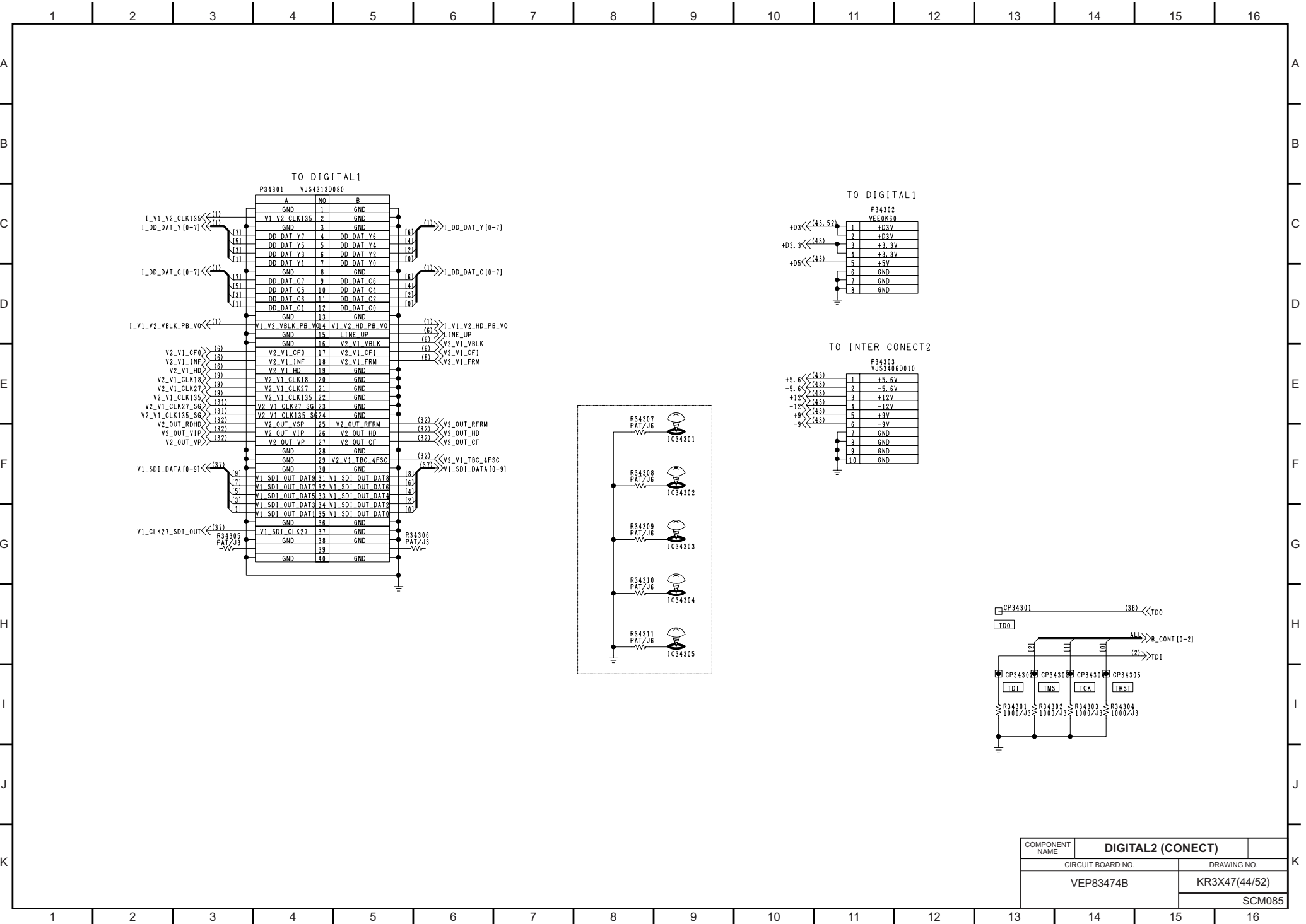






COMPONENT NAME		DIGITAL2 (CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(43/52)	
		SCM084	

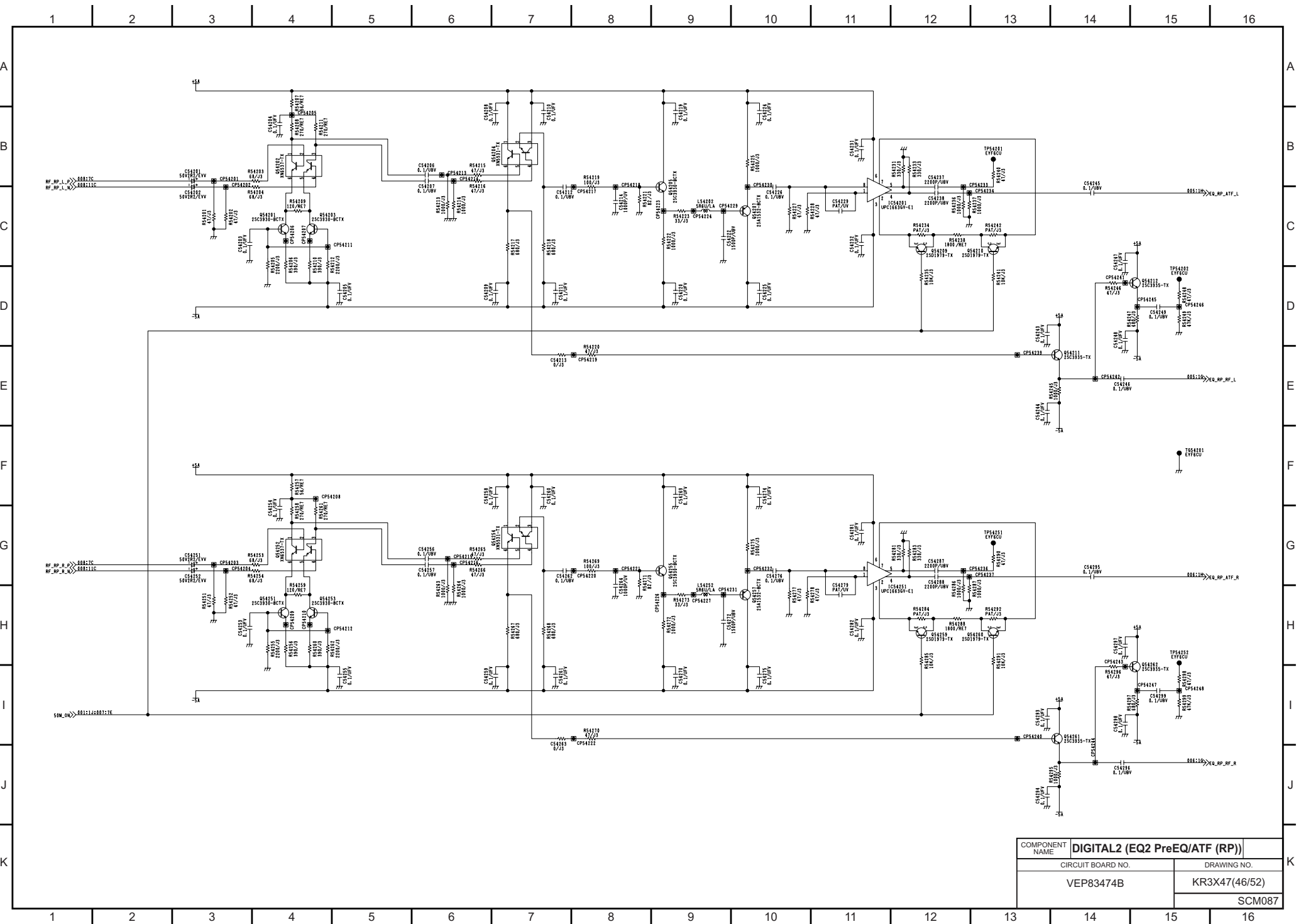






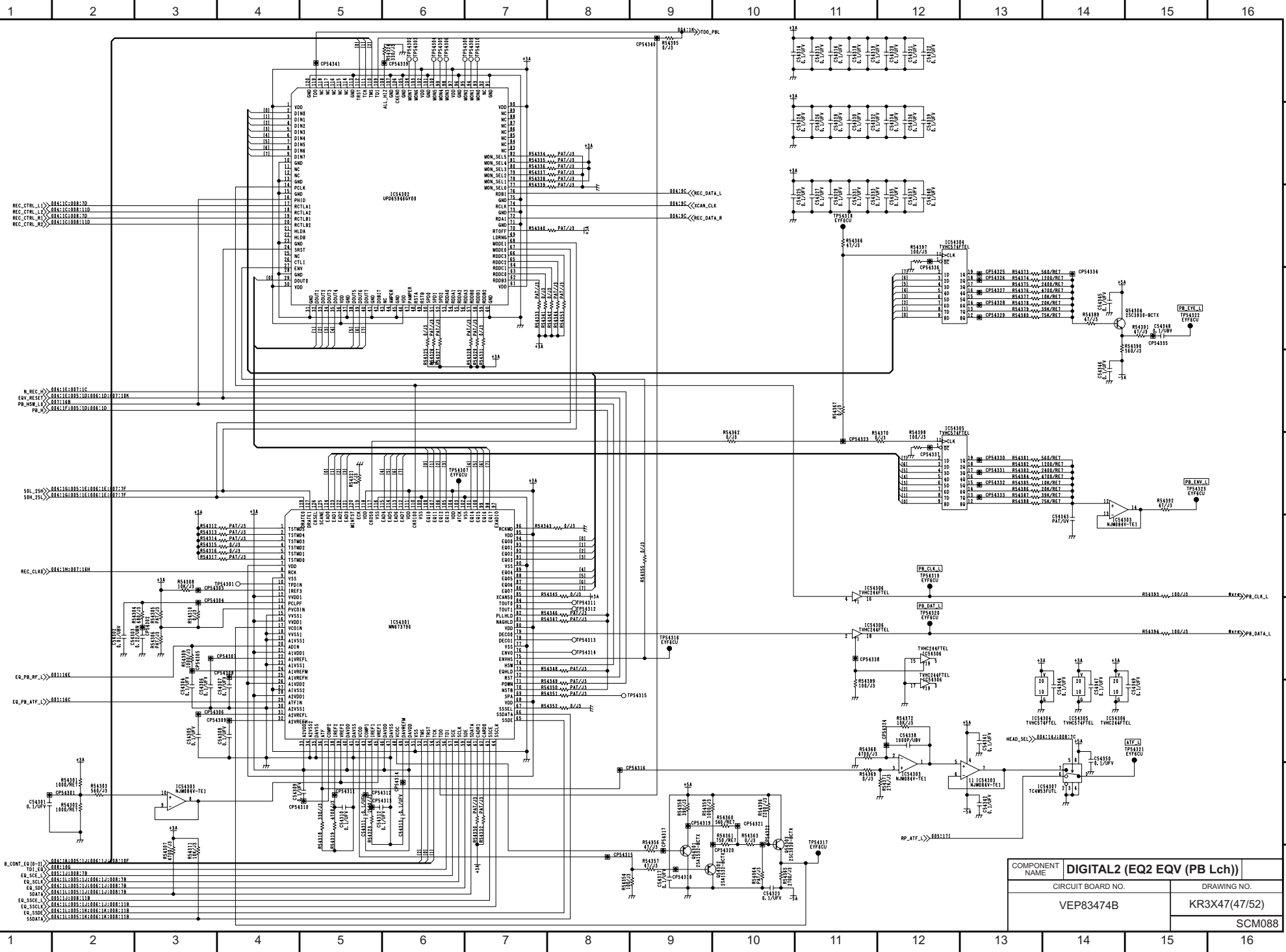




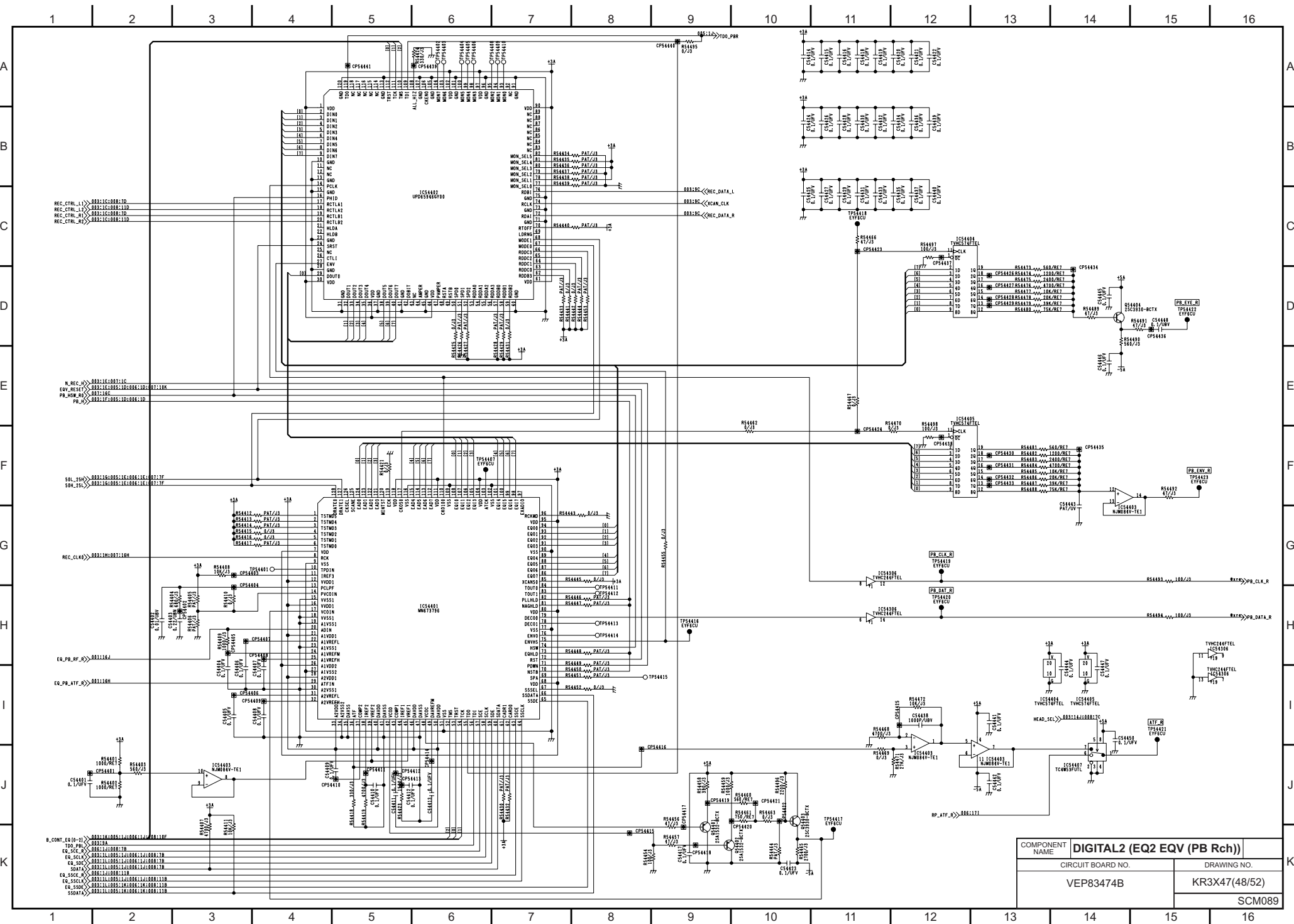


COMPONENT NAME		DIGITAL2 (EQ2 PreEQ/ATF (RP))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83747B		KR3X47(46/52)	
		SCM087	



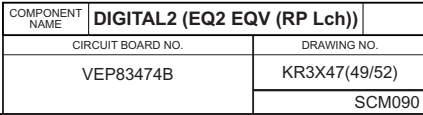




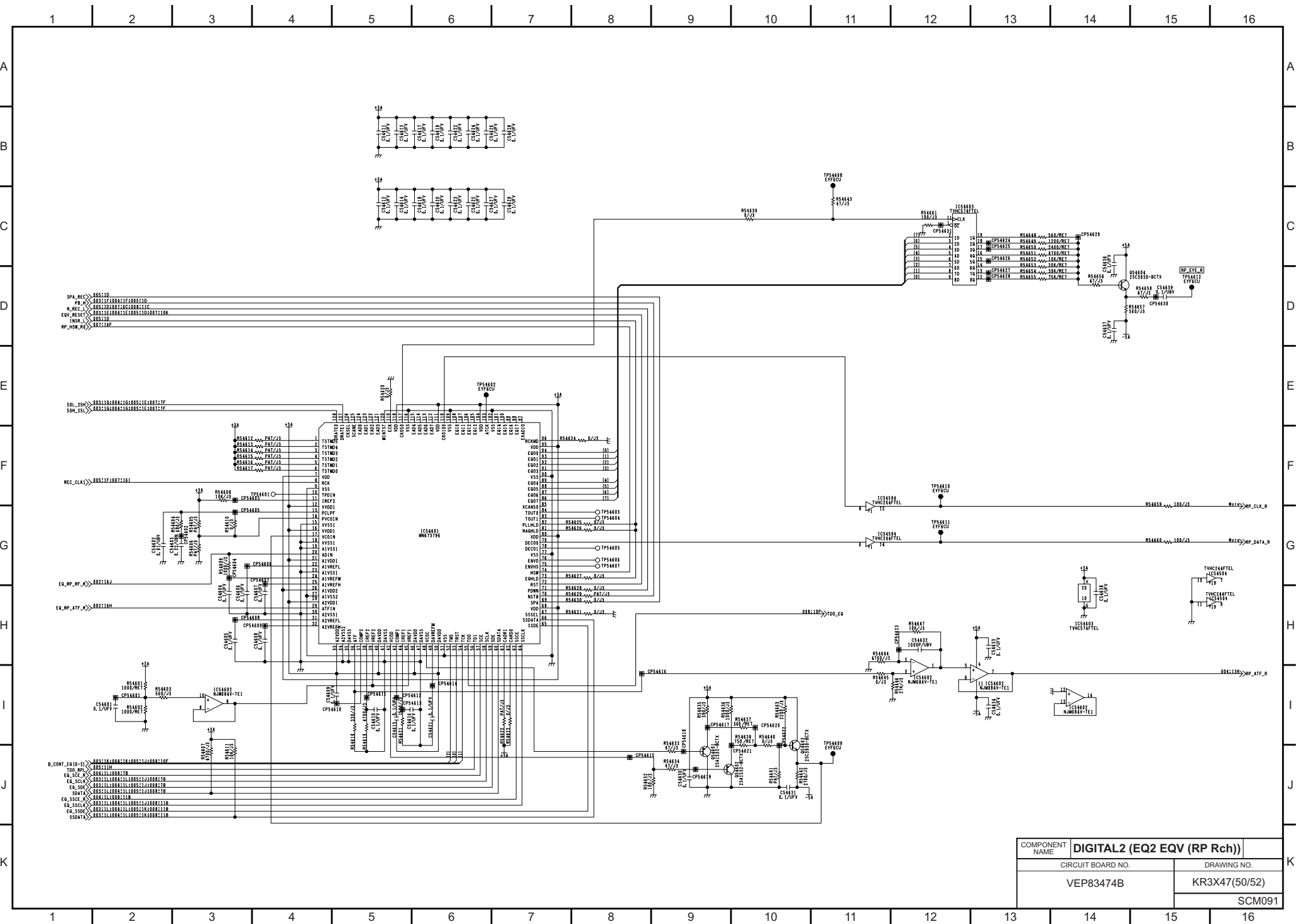


COMPONENT NAME		DIGITAL2 (EQ2 EQV (PB Rch))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83747B		KR3X47(48/52)	
		SCM089	



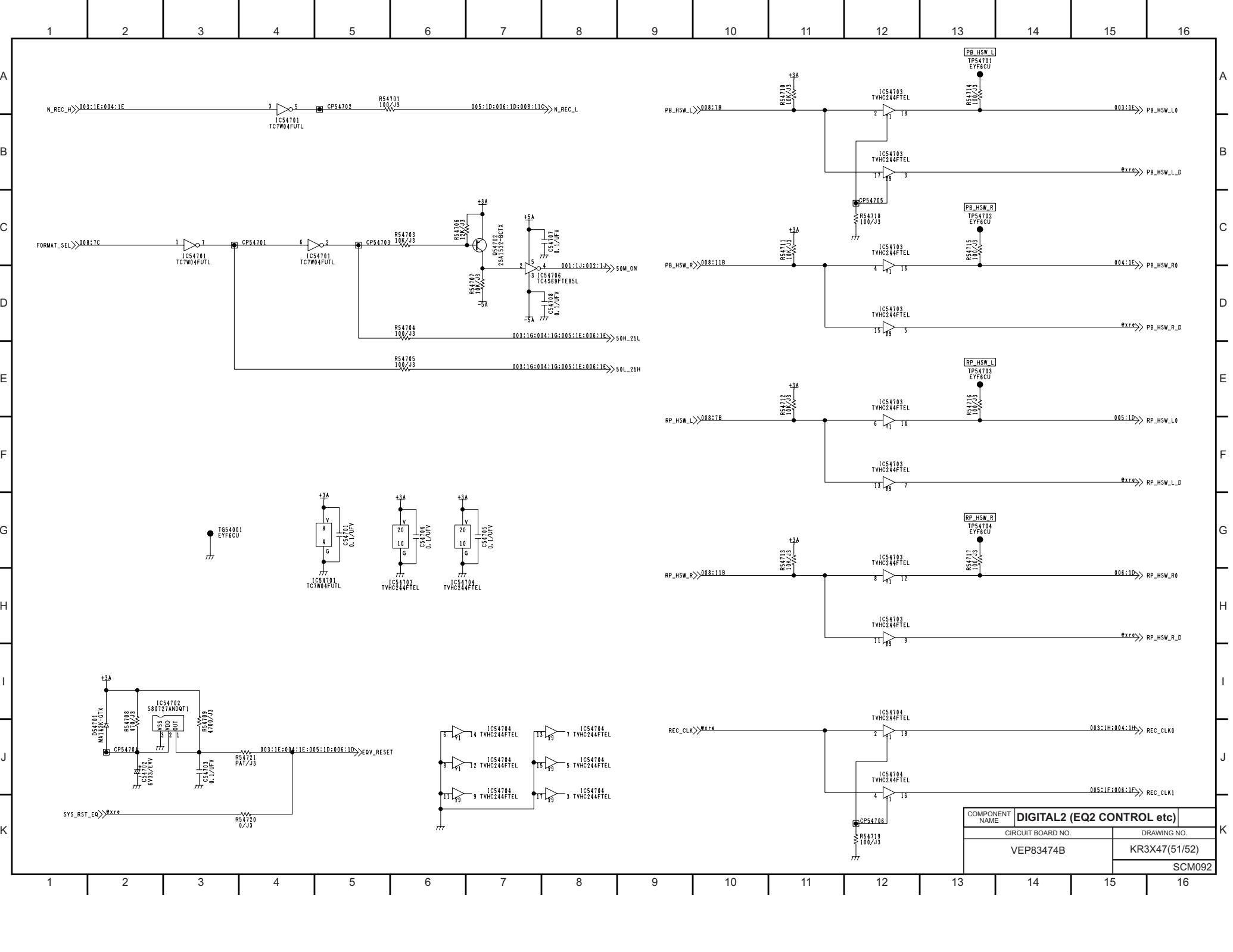






COMPONENT NAME		DIGITAL2 (EQ2 EQV (RP Rch))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83747B		KR3X47(50/52)	
		SCM091	



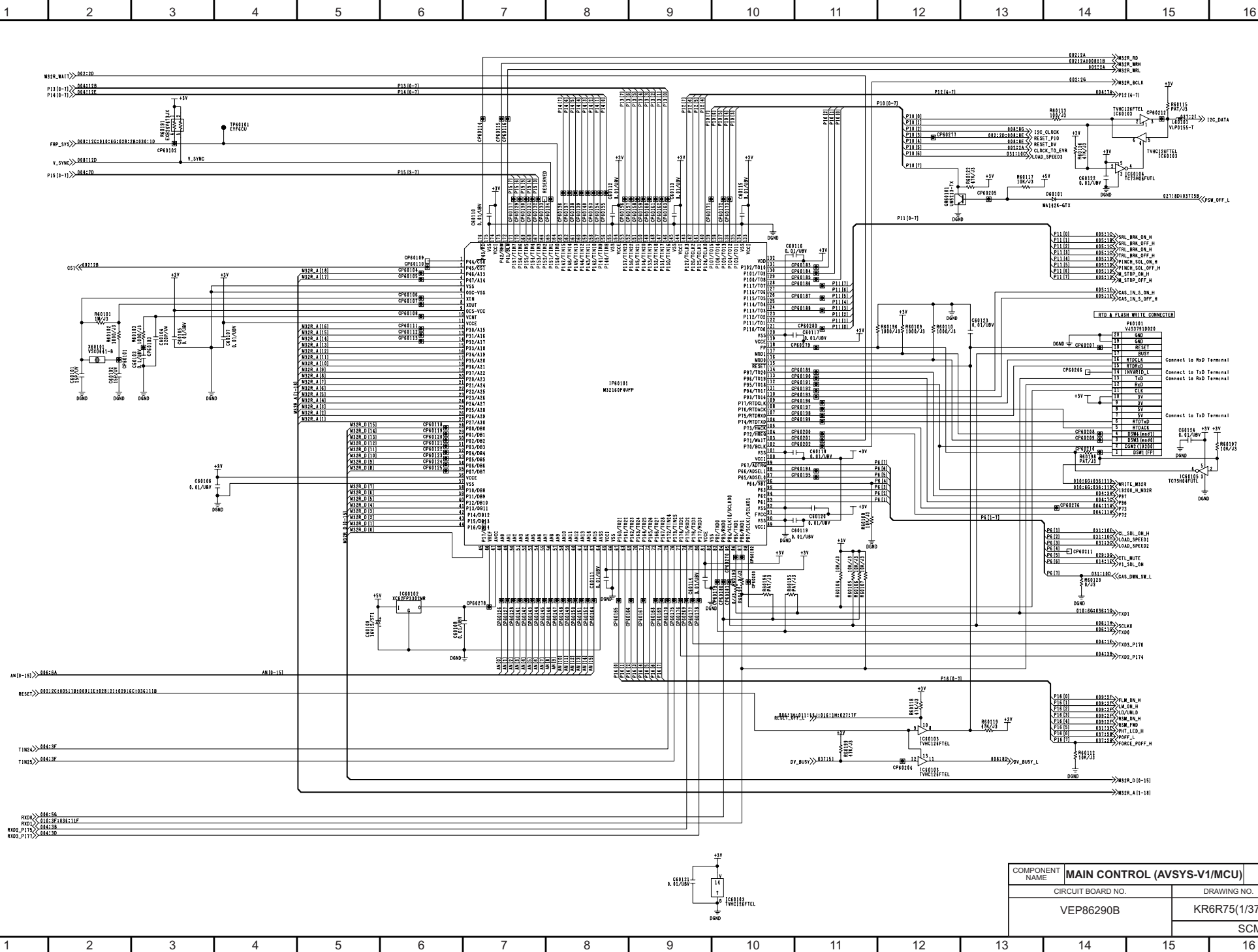


COMPONENT NAME	DIGITAL2 (EQ2 CONTROL etc)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(51/52)
SCM092		

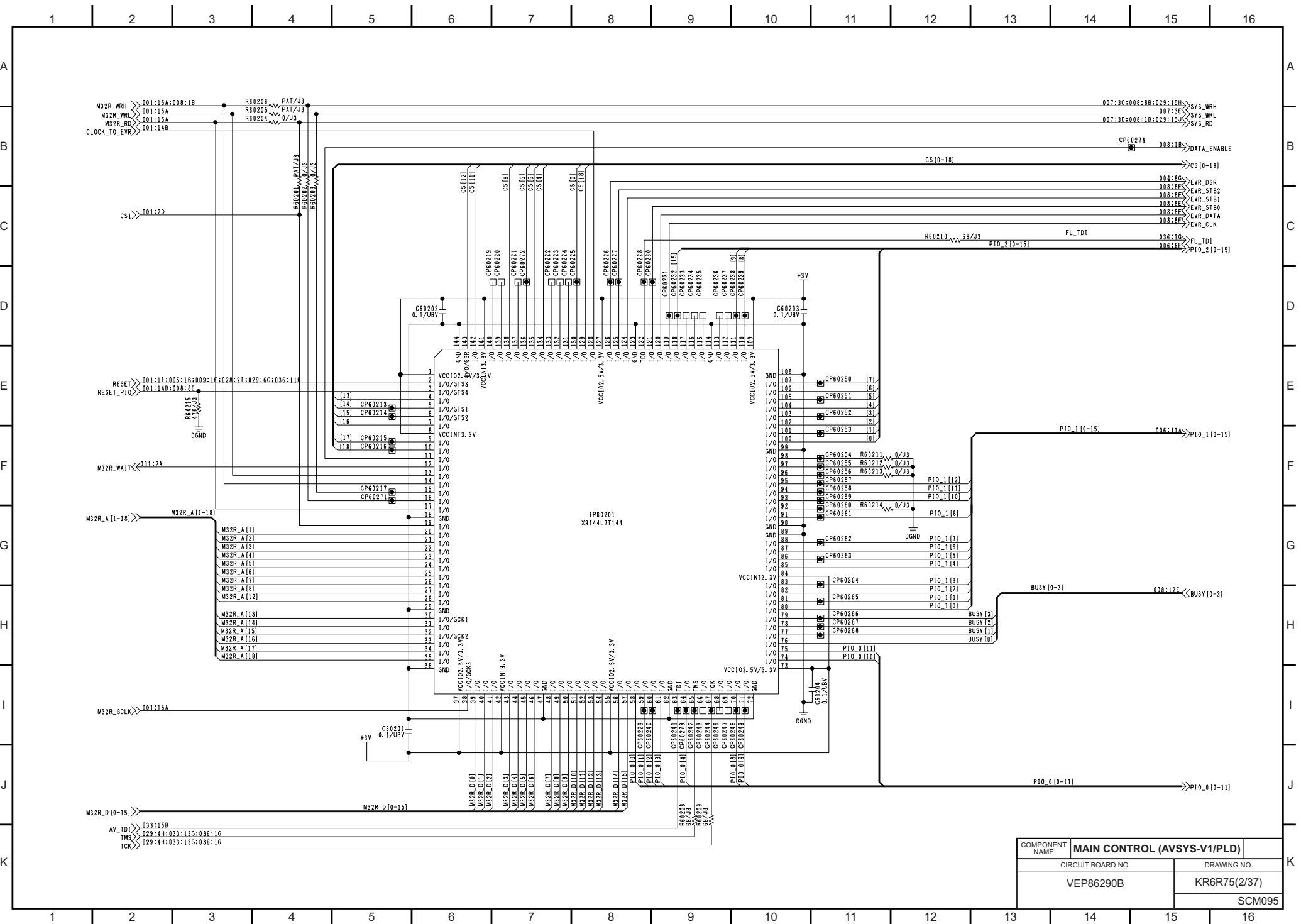






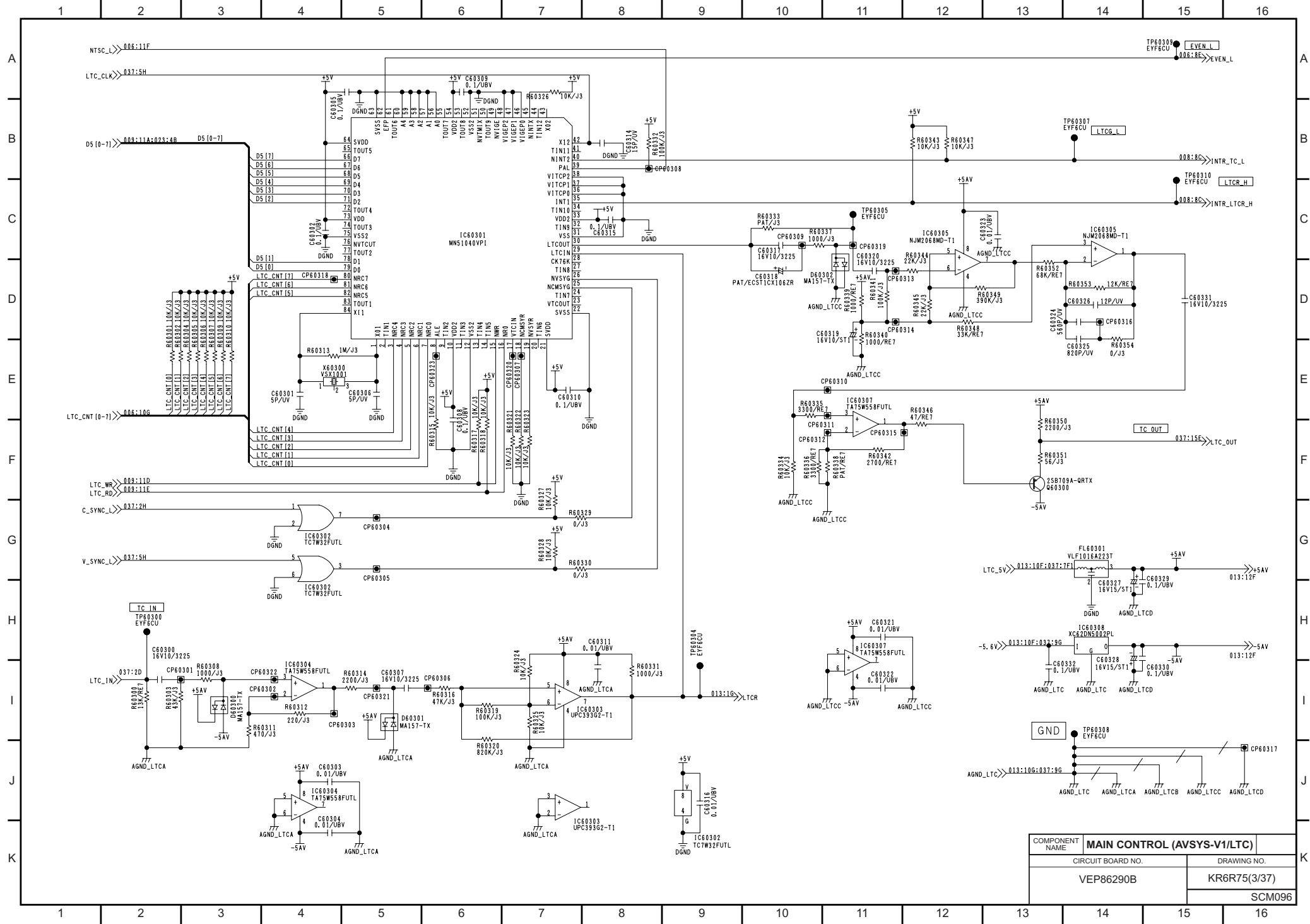




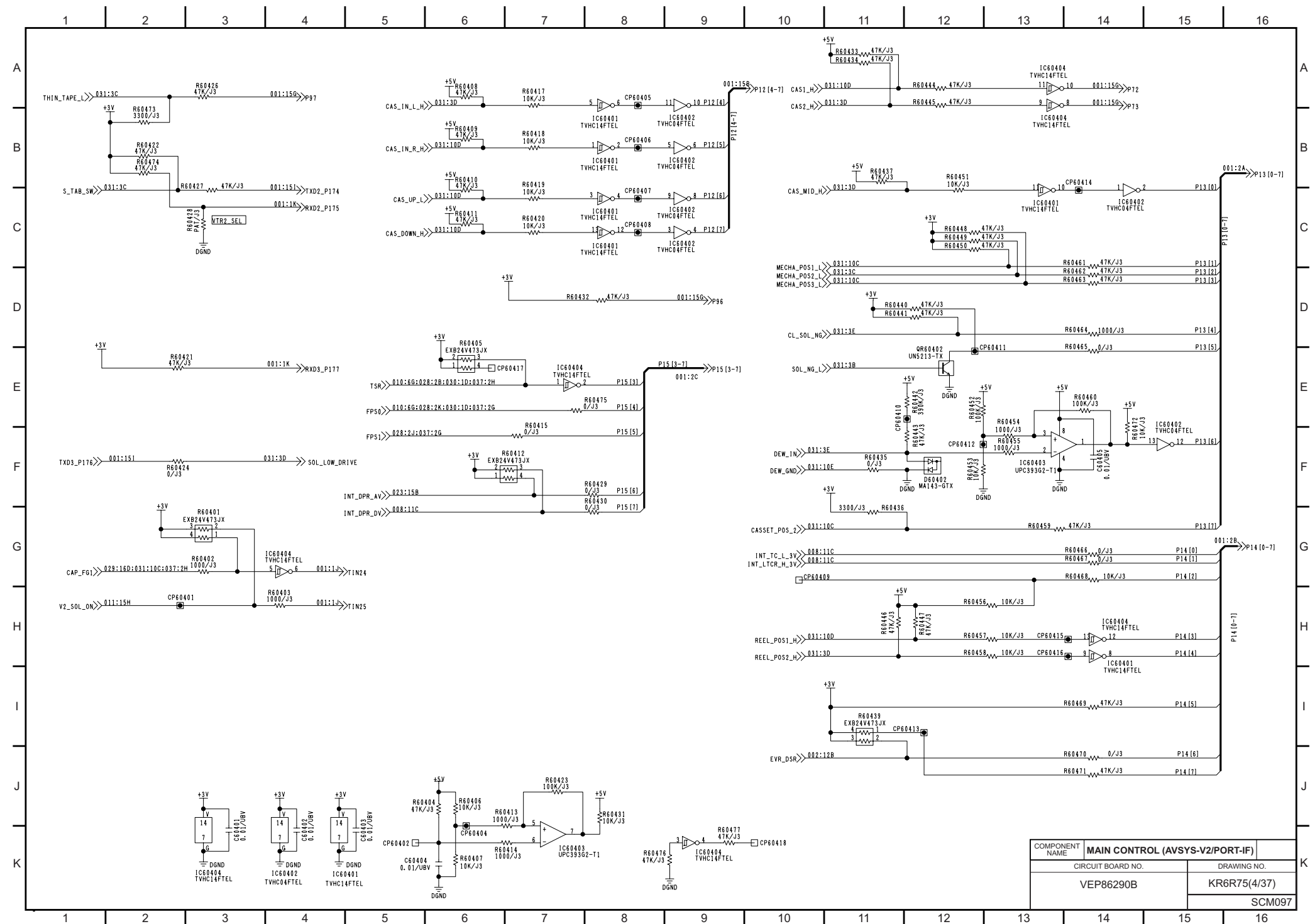


COMPONENT NAME		MAIN CONTROL (AVSYS-V1/PLD)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(2/37)	
		SCM095	

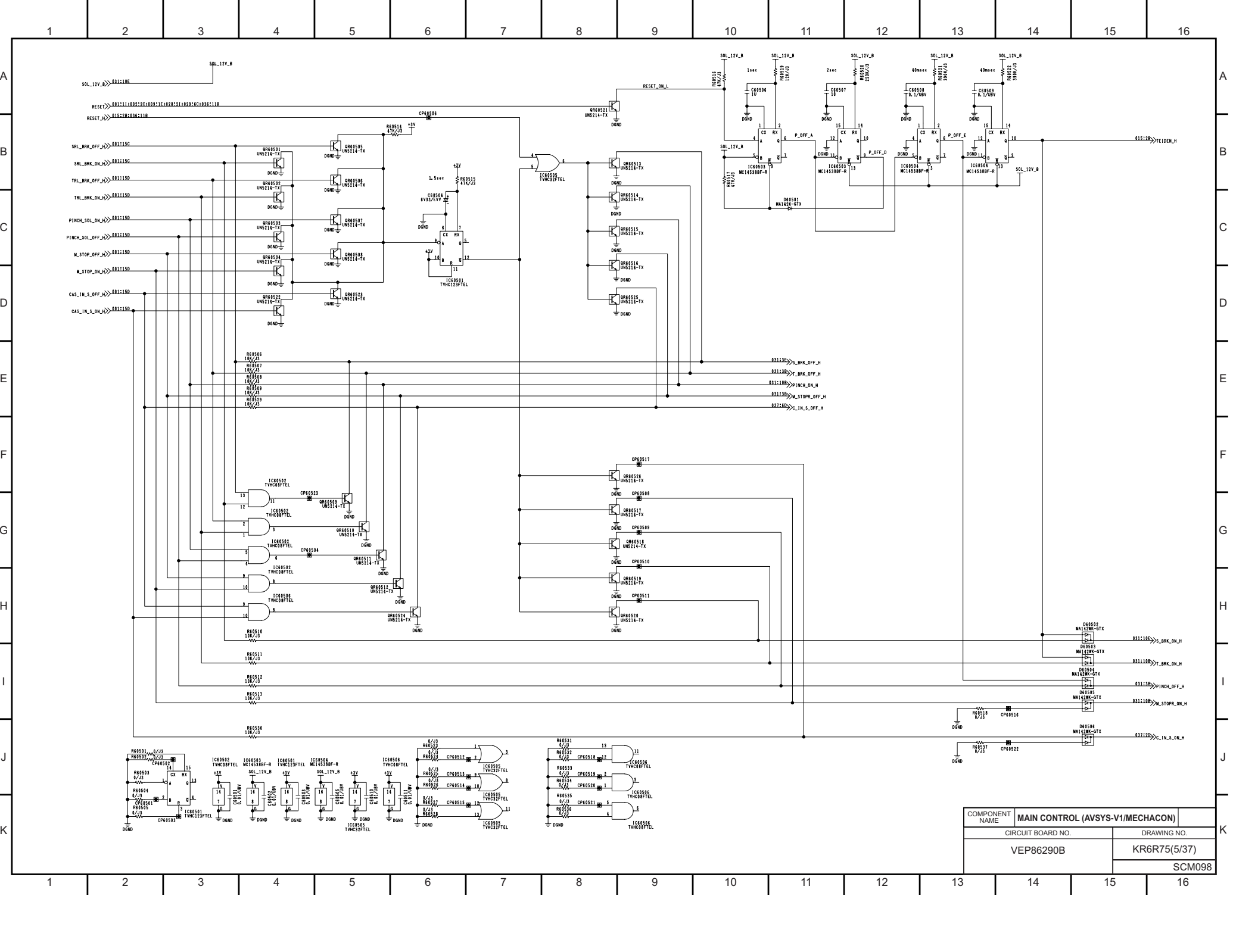






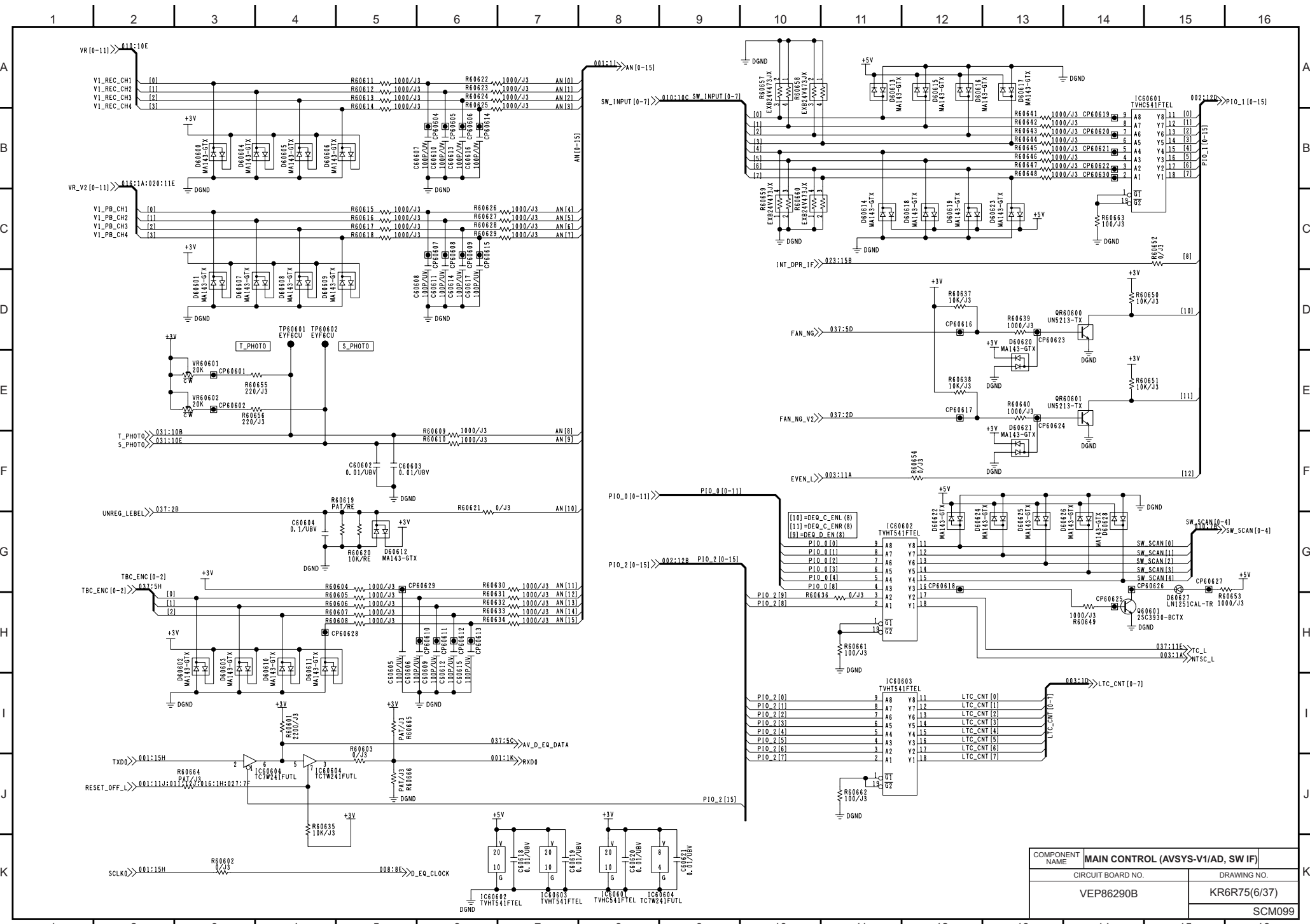






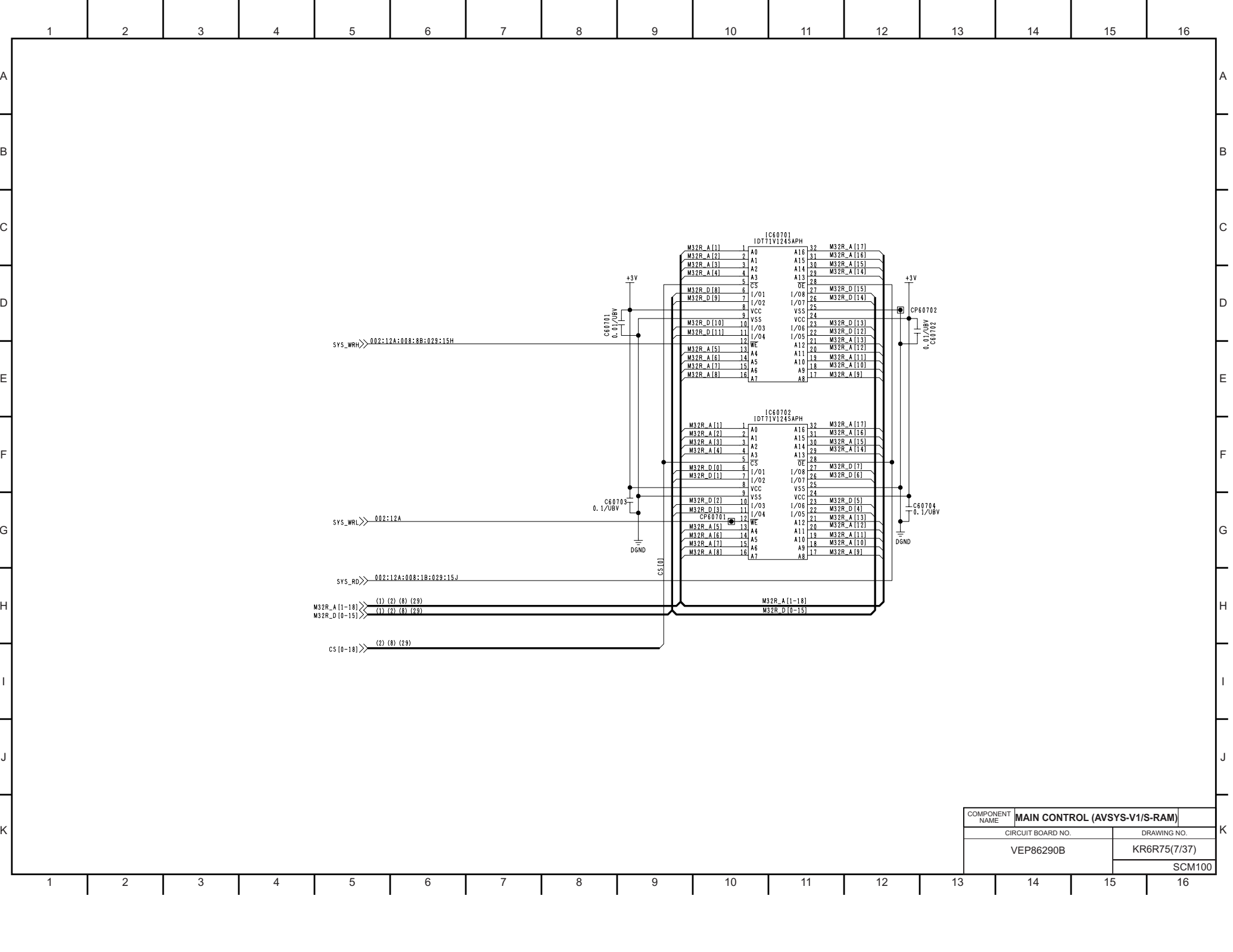
COMPONENT NAME	MAIN CONTROL (AVSYS-V1/MECHACON)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR675(5/37)
SCM098		





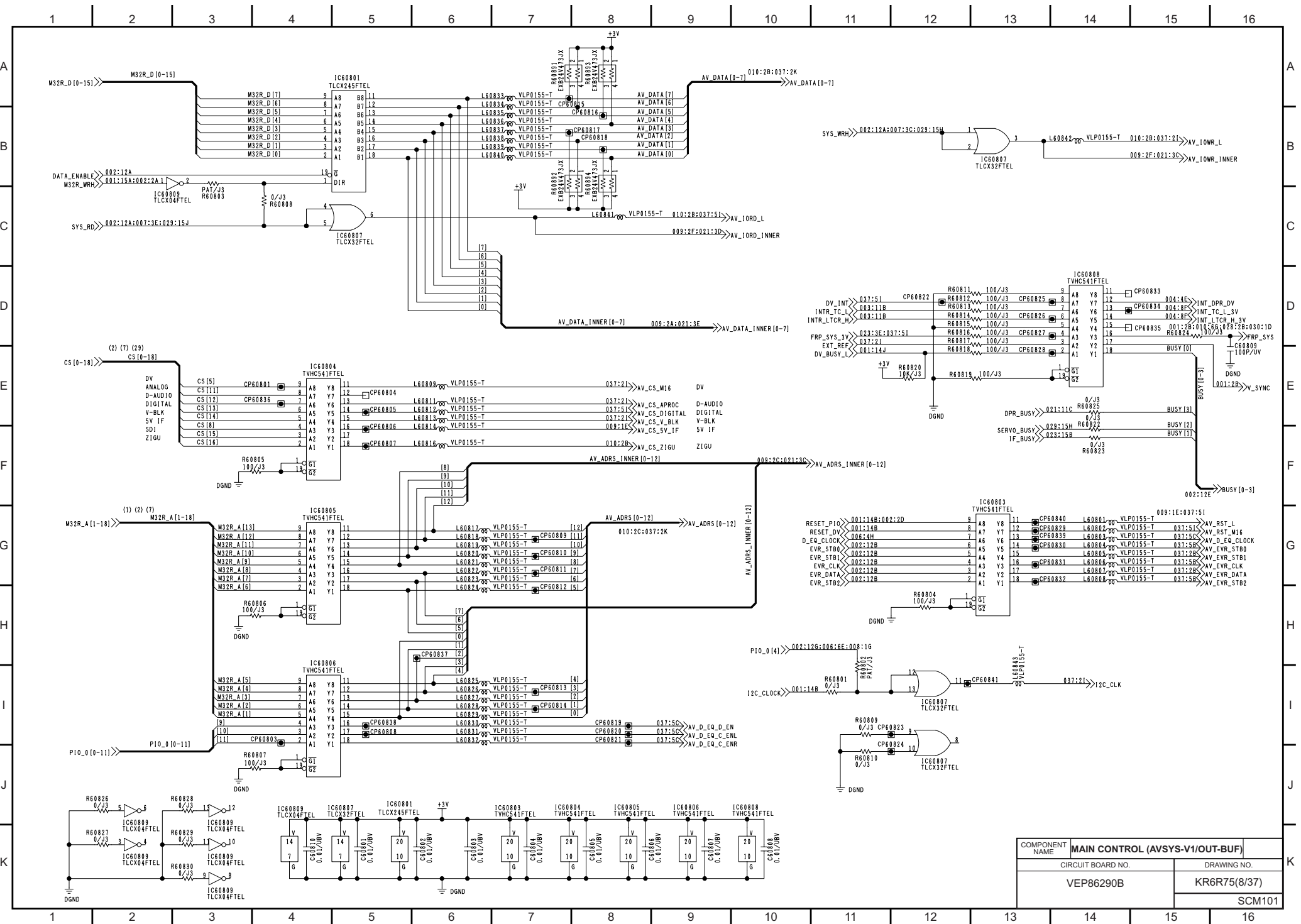
COMPONENT NAME		MAIN CONTROL (AVSYS-V1/AD, SW IF)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(6/37)	
		SCM099	





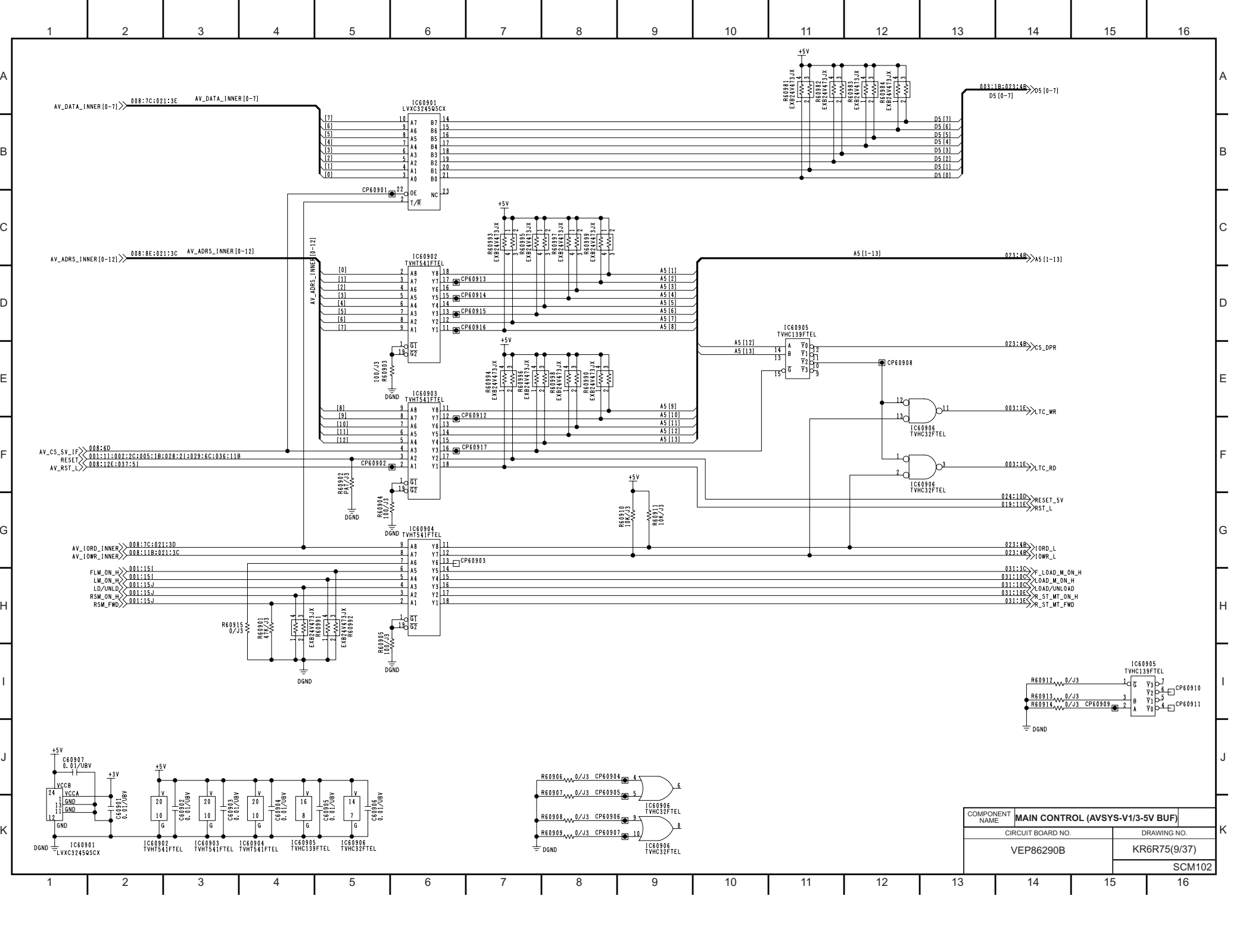
COMPONENT NAME	MAIN CONTROL (AVSYS-V1/S-RAM)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(7/37)
		SCM100





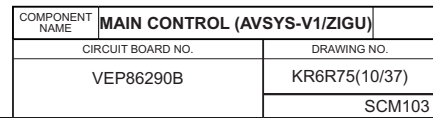
COMPONENT NAME	MAIN CONTROL (AVSYS-V1/OUT-BUF)	
CIRCUIT BOARD NO.	VEP86290B	DRAWING NO.
		KR6R75(8/37)
		SCM101



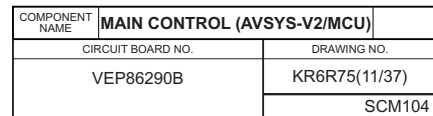


COMPONENT NAME	MAIN CONTROL (AVSYS-V1/3-5V BUF)	
CIRCUIT BOARD NO.	VEP86290B	DRAWING NO.
		KR675(9/37)
		SCM102

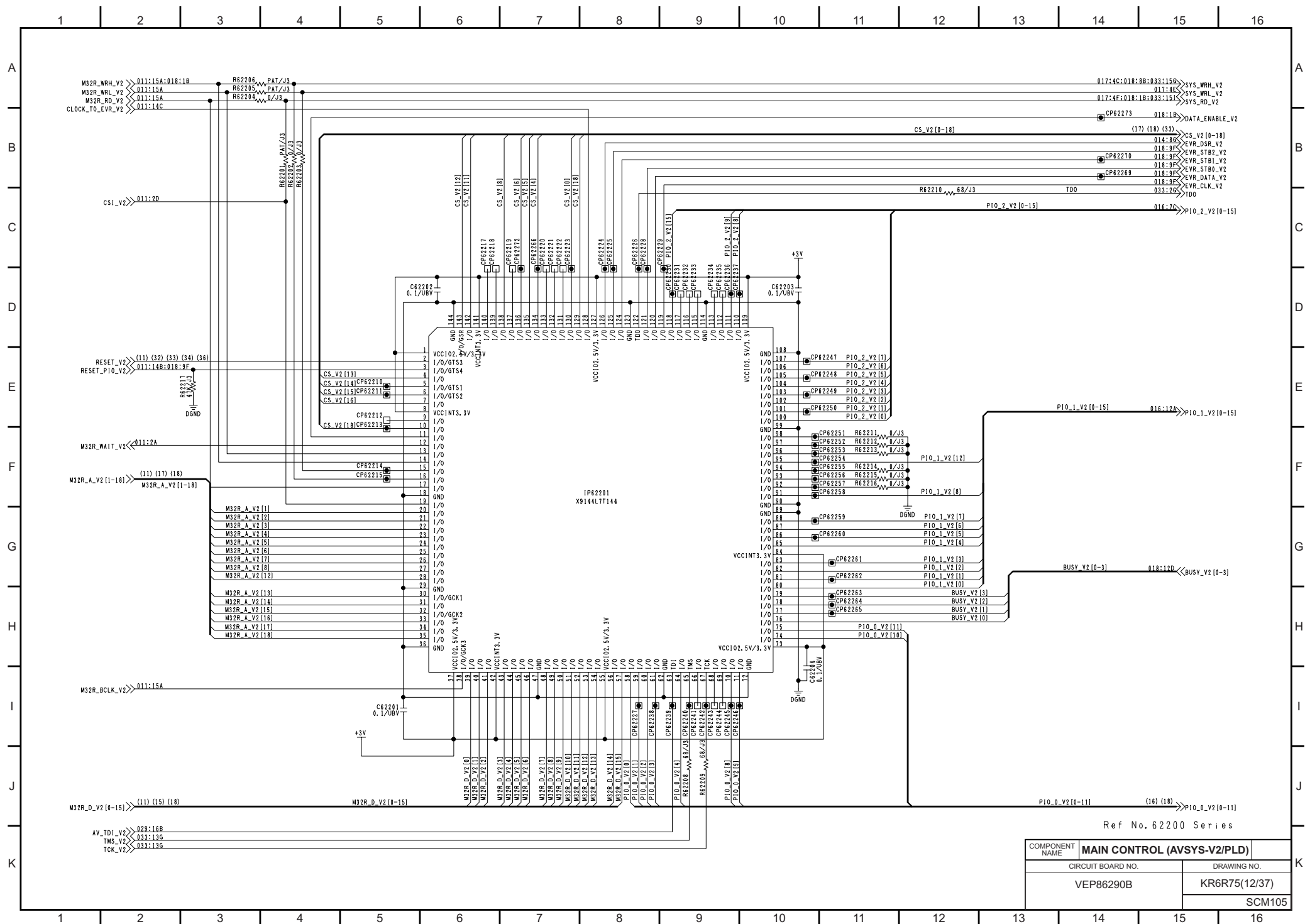








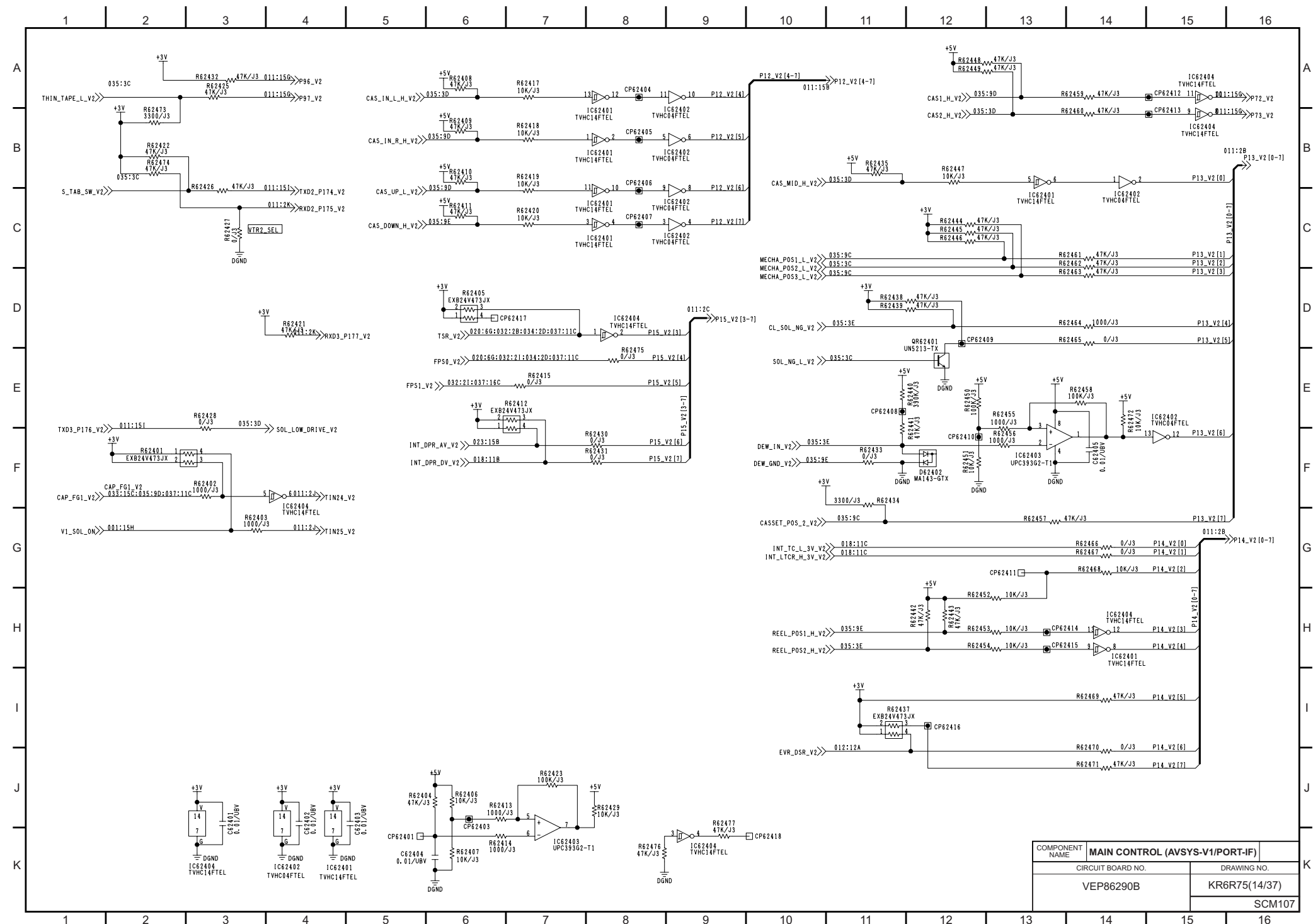




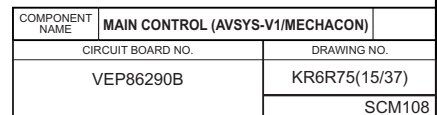






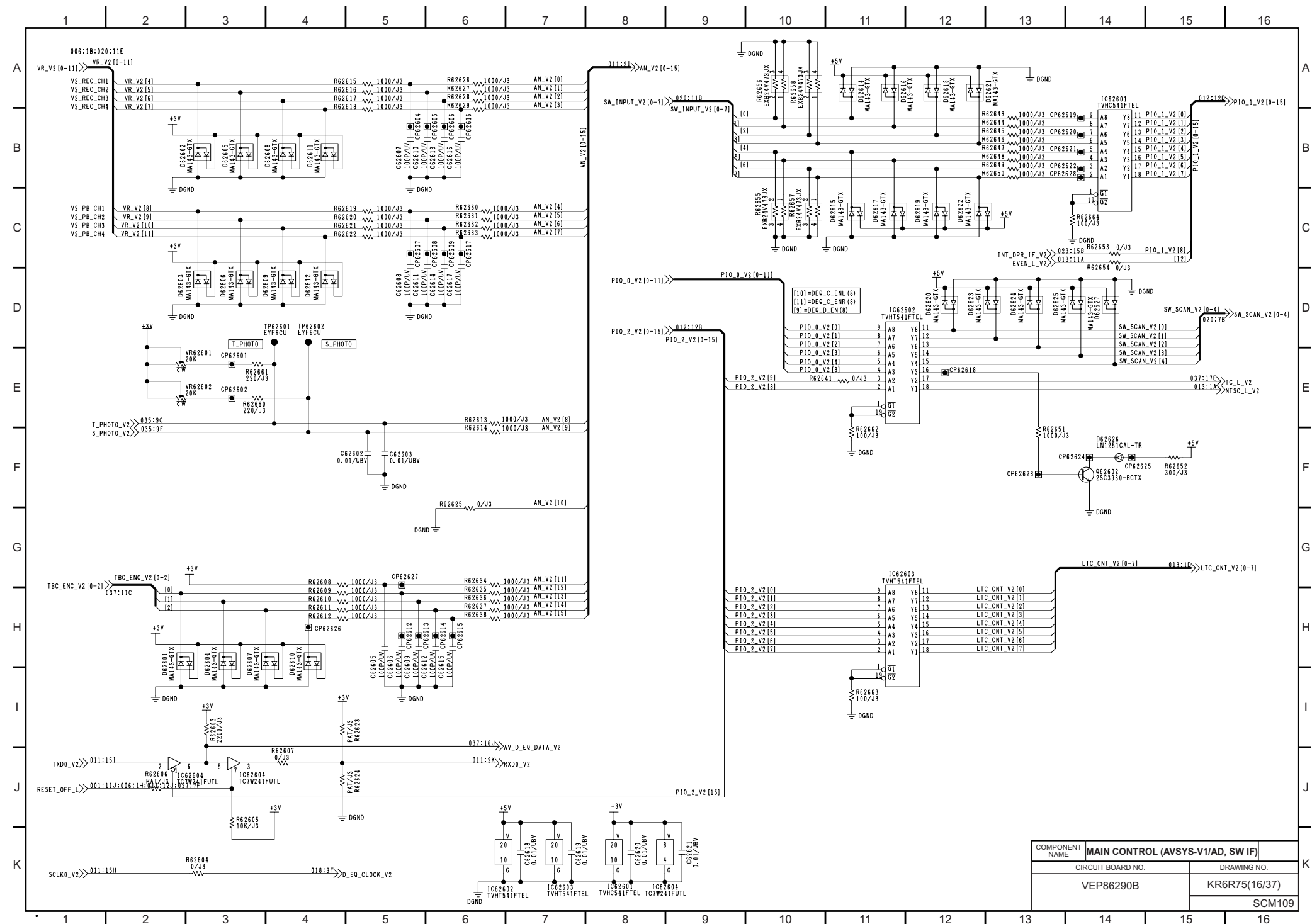




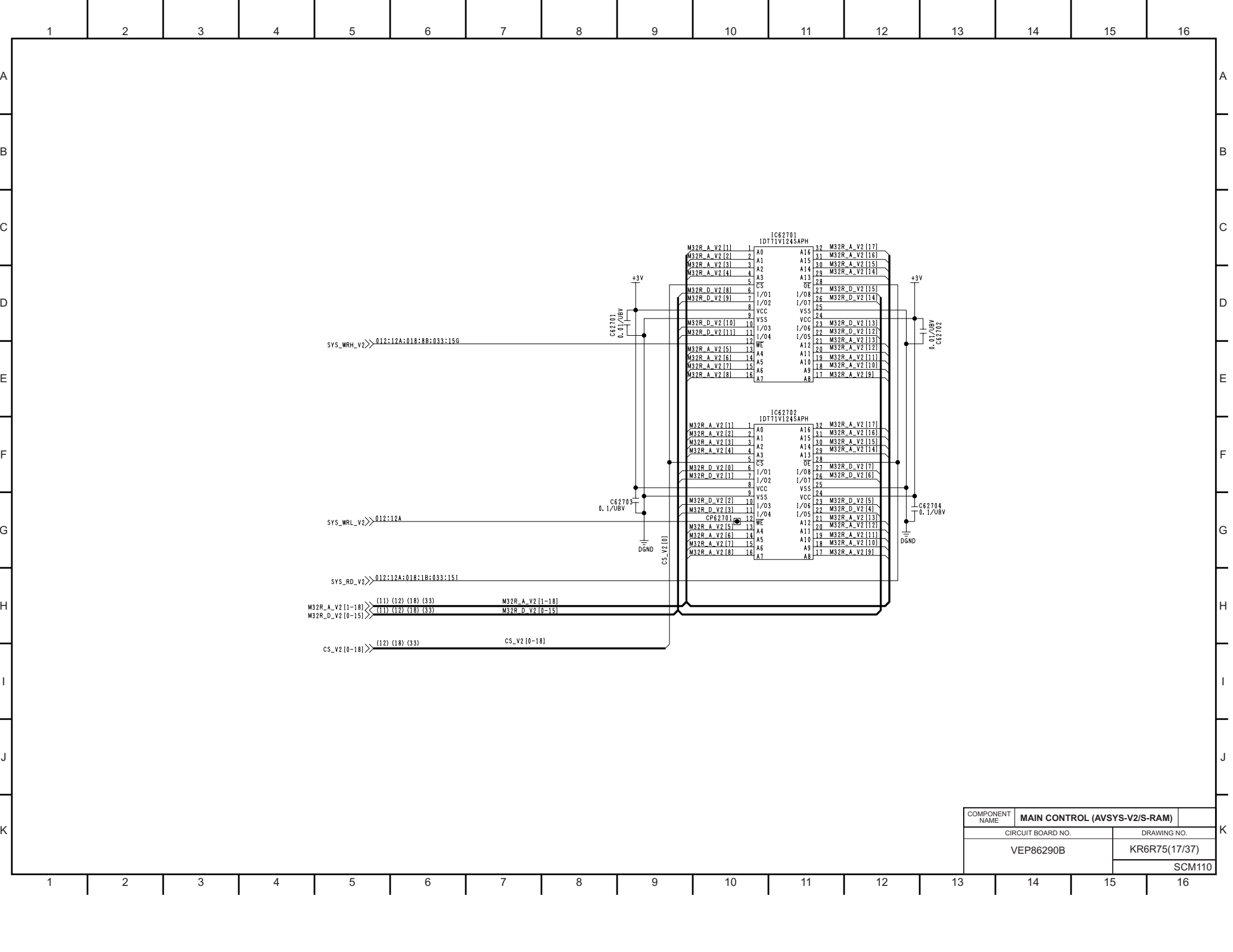


COMPONENT NAME	MAIN CONTROL (AVSYS-V1/MECHACON)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(15/37)	
		SCM108	



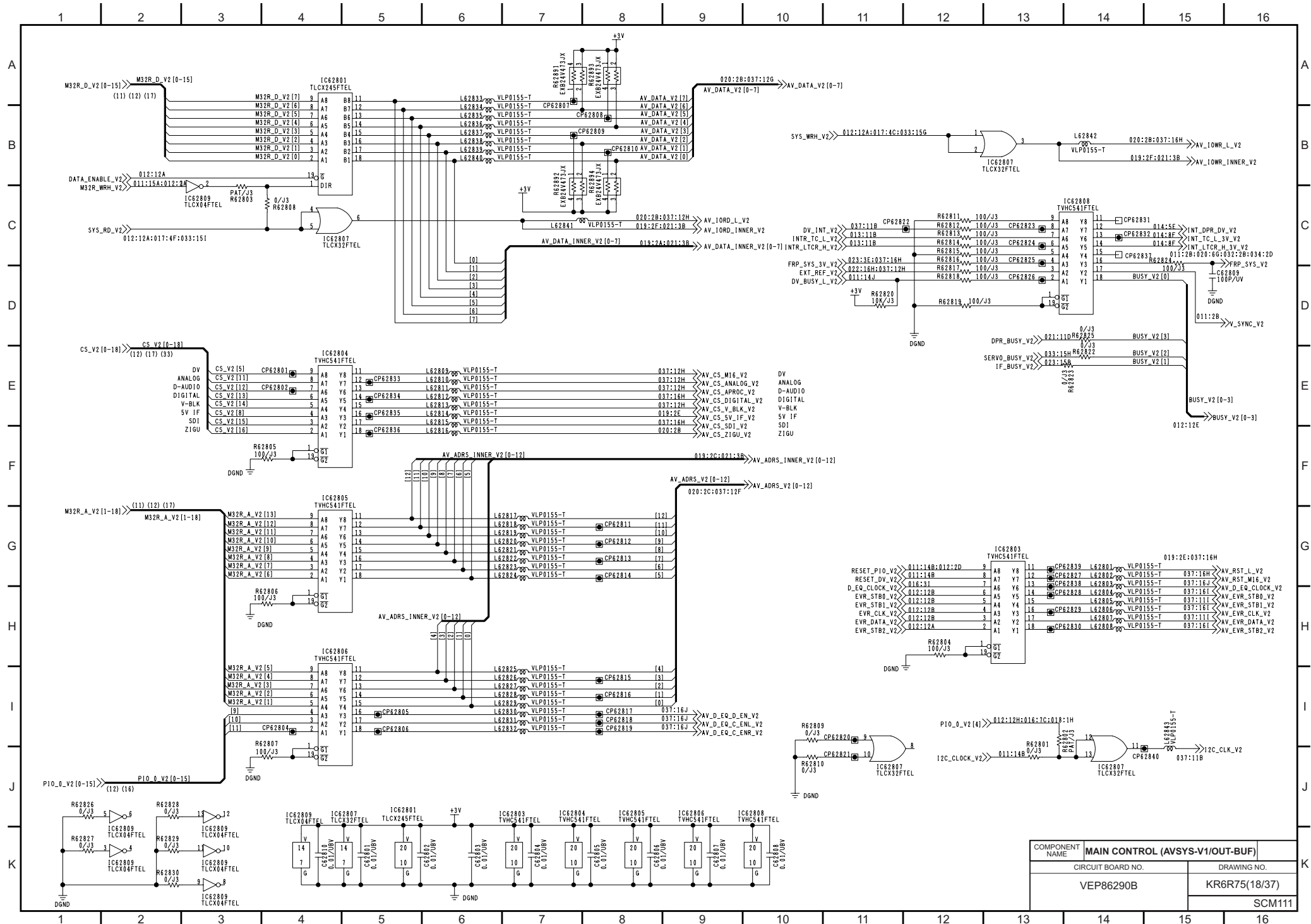




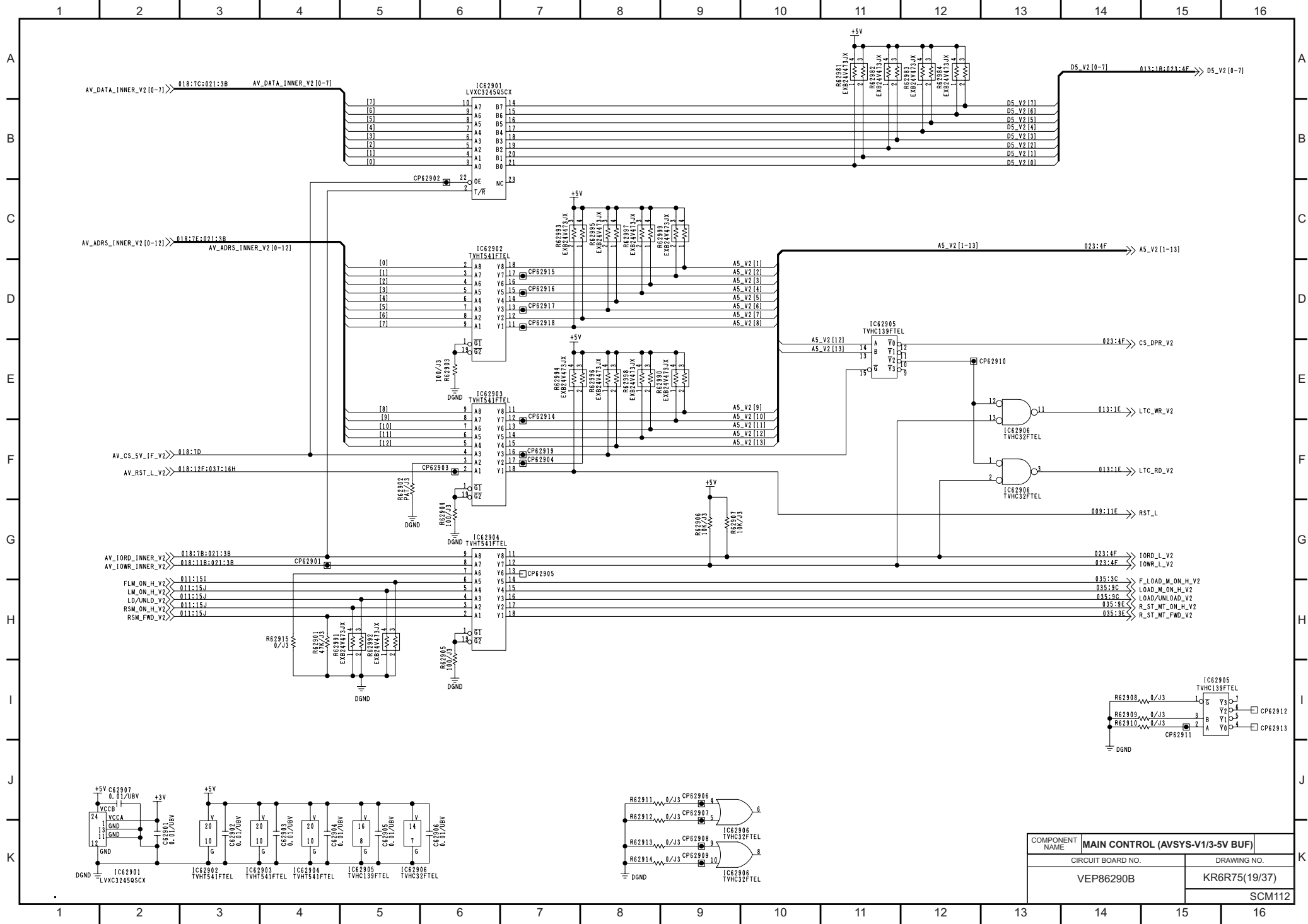


COMPONENT NAME	MAIN CONTROL (AVSYS-V2/S-RAM)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(17/37)
SCM110		











A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

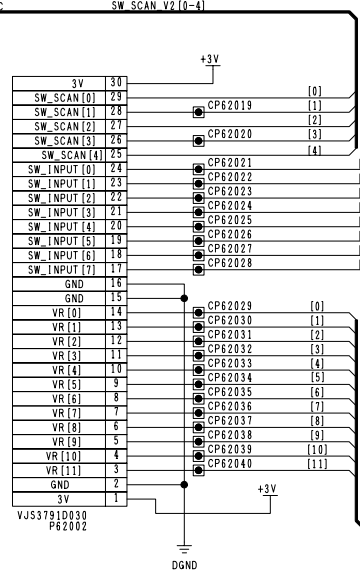
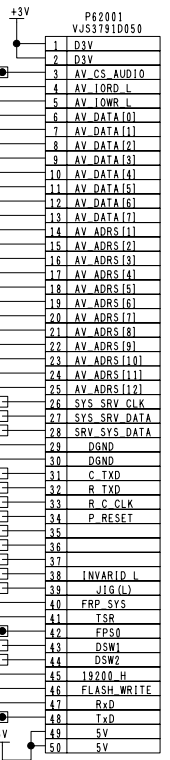
AV\_CS\_ZIGU\_V2 >>> 018:7D  
AV\_IORD\_L\_V2 >>> 018:7B:037:12H  
AV\_IOWR\_L\_V2 >>> 018:11B:037:16H

AV\_DATA\_V2 [0-7] >>> 018:8A:037:12G

AV\_ADRS\_V2 [0-12] >>> 018:7E:037:12F

RXD1\_V2 >>> 011:2K:036:11F

011:15H:036:1G >>> TXD1\_V2  
011:15G:036:11D >>> WRITE\_M32R\_V2  
011:15G:036:11C >>> 19200\_H\_M32R\_V2  
014:5D:032:21:034:2D:037:11C >>> PFS0\_V2  
014:5D:032:2B:034:2D:037:11C >>> TFSR\_V2  
011:2B:018:12C:032:2B:034:2D >>> FRP\_SYS\_V2



SW\_SCAN\_V2 [0-4] >>> 016:12C

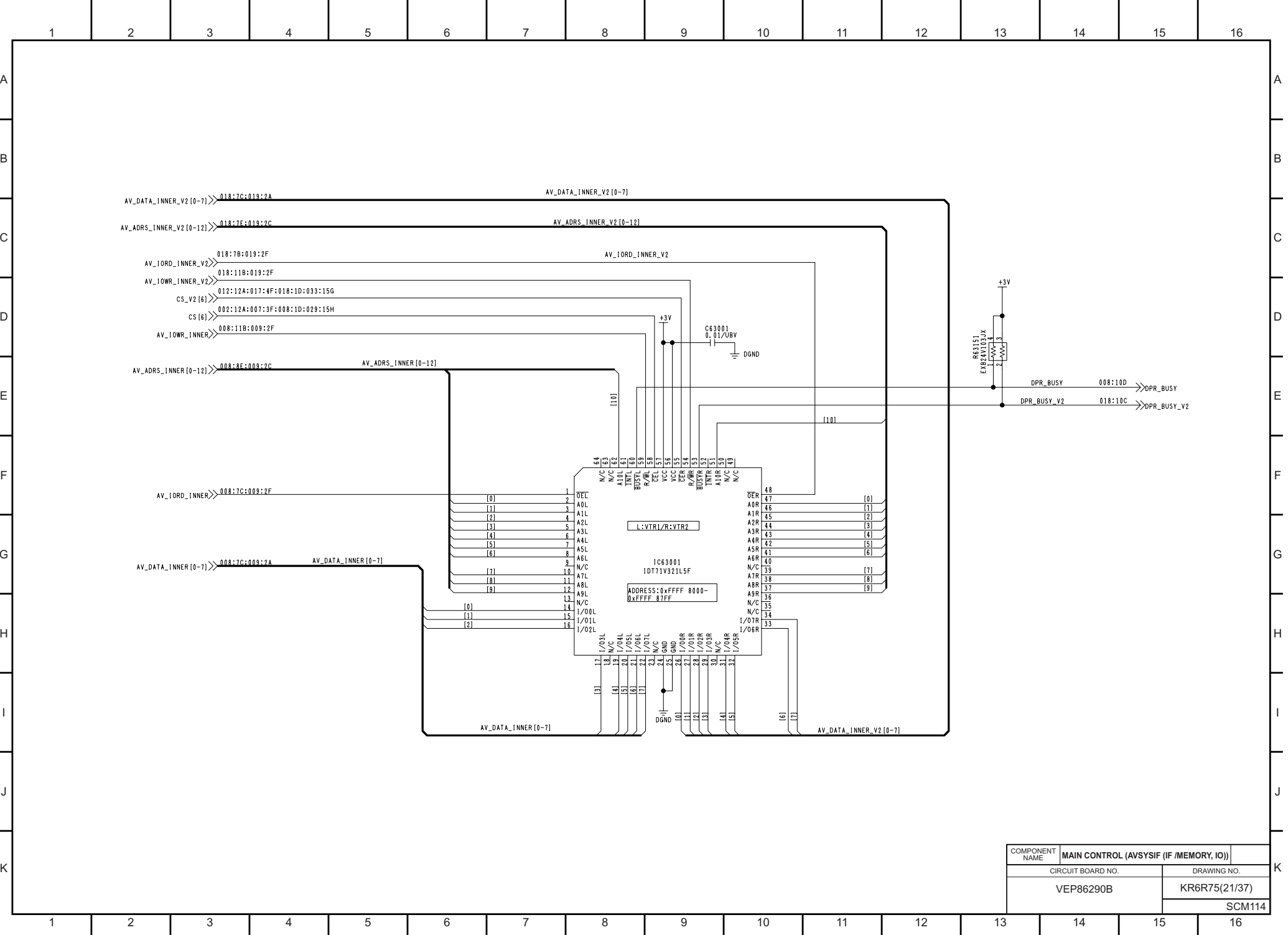
SW\_SCAN\_V2 [0-4] >>> 016:12C

SW\_INPUT\_V2 [0-7] >>> 016:7A

VR\_V2 [0-11] >>> 006:1B:016:1A

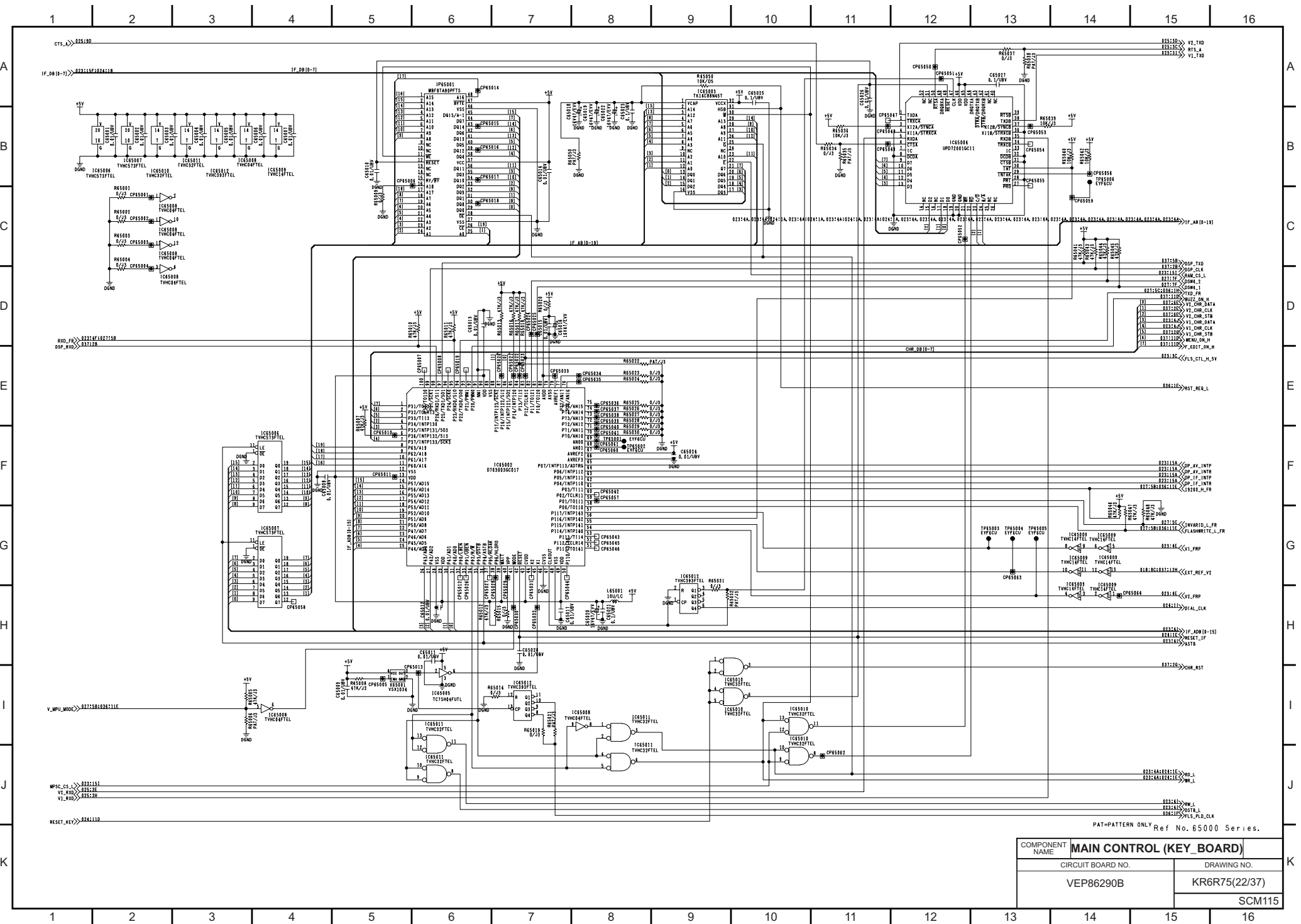
COMPONENT NAME	MAIN CONTROL (AVSYS-V1/ZIGU)	
CIRCUIT BOARD NO.	VEP86290B	DRAWING NO. KR6R75(20/37)
SCM113		





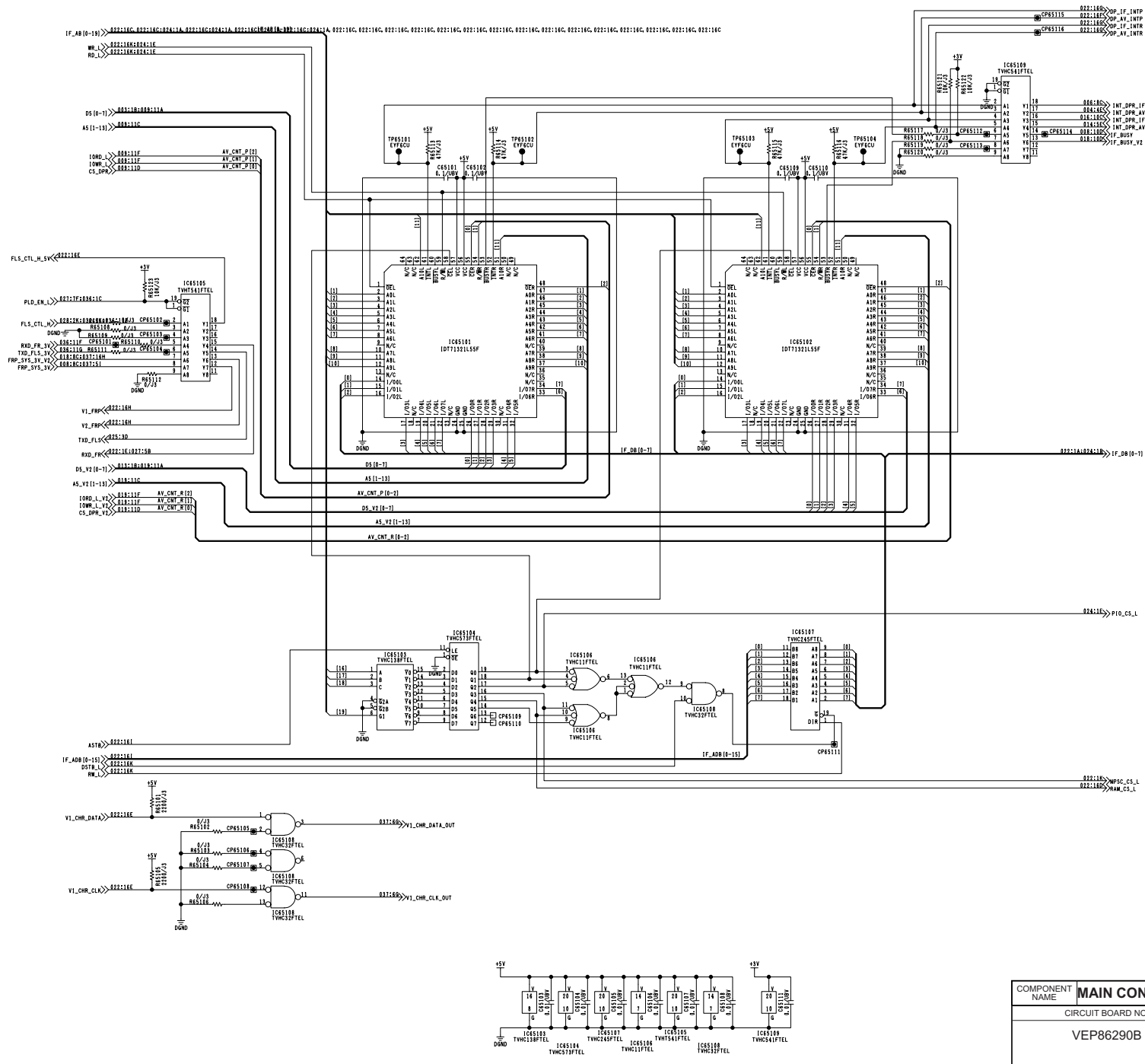
COMPONENT NAME	MAIN CONTROL (AVSYSIF (IF/MEMORY, IO))	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(21/37)
		SCM114



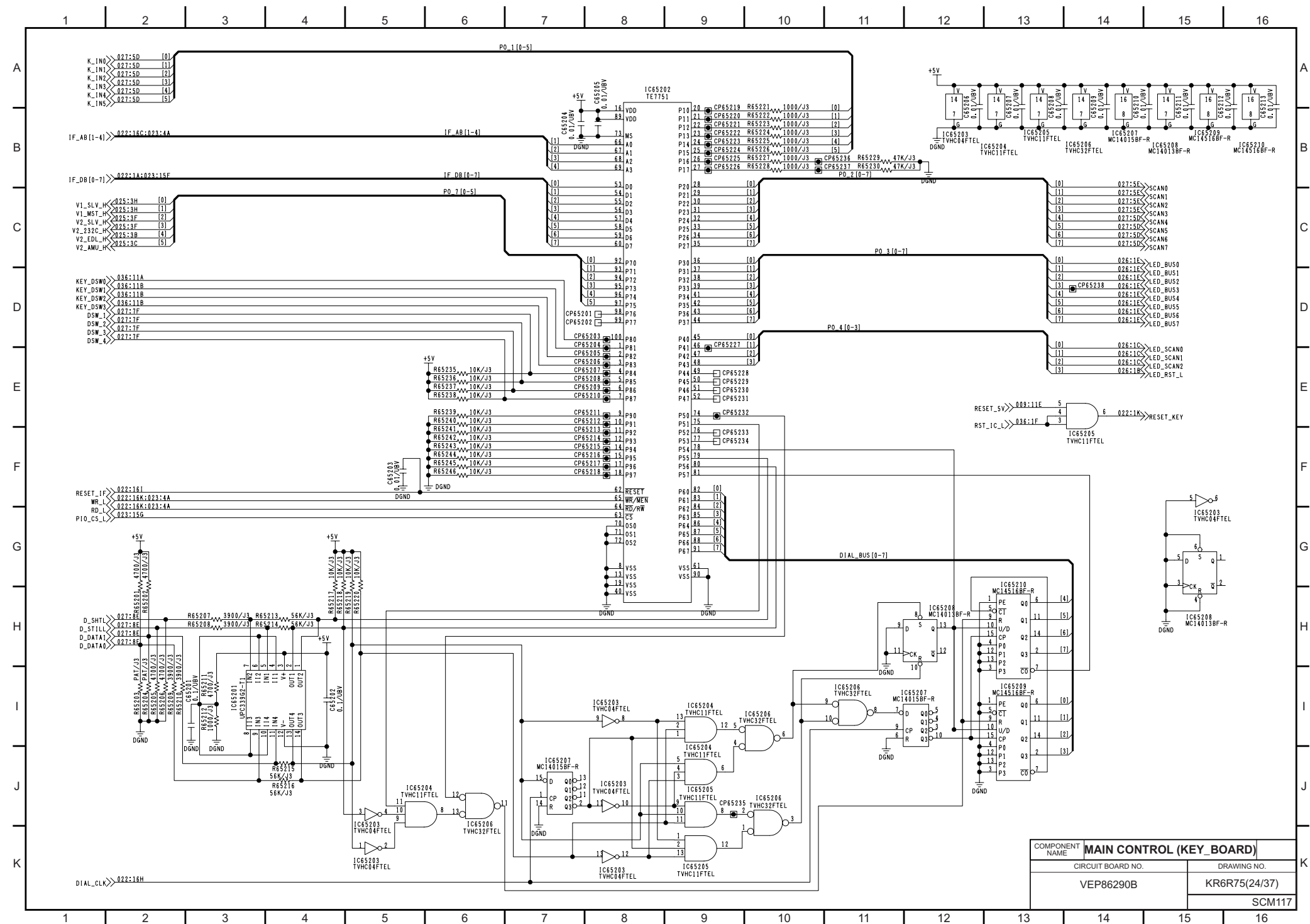


COMPONENT NAME		MAIN CONTROL (KEY_BOARD)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(22/37)	
		SCM115	

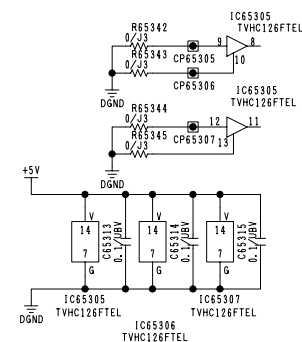




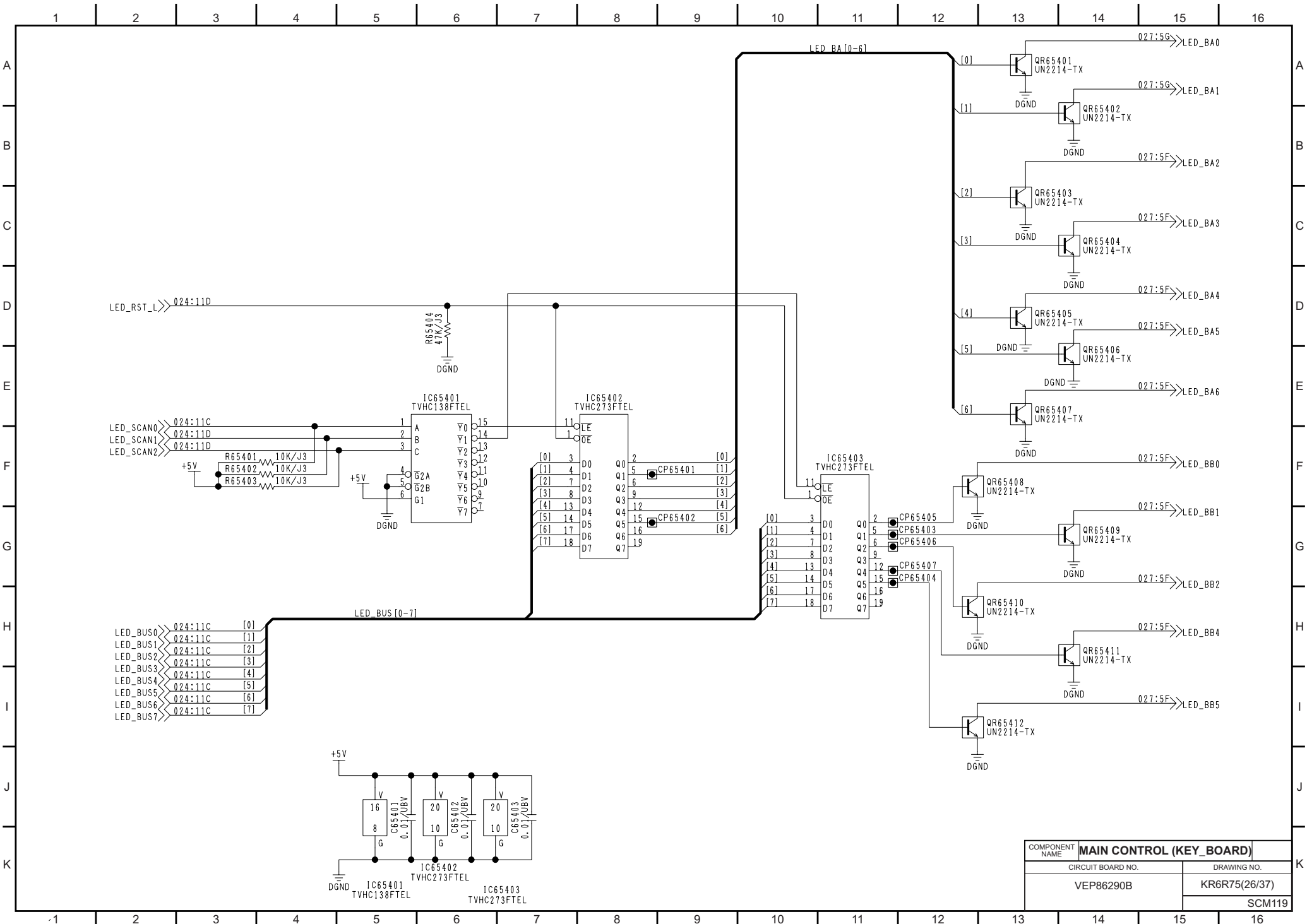




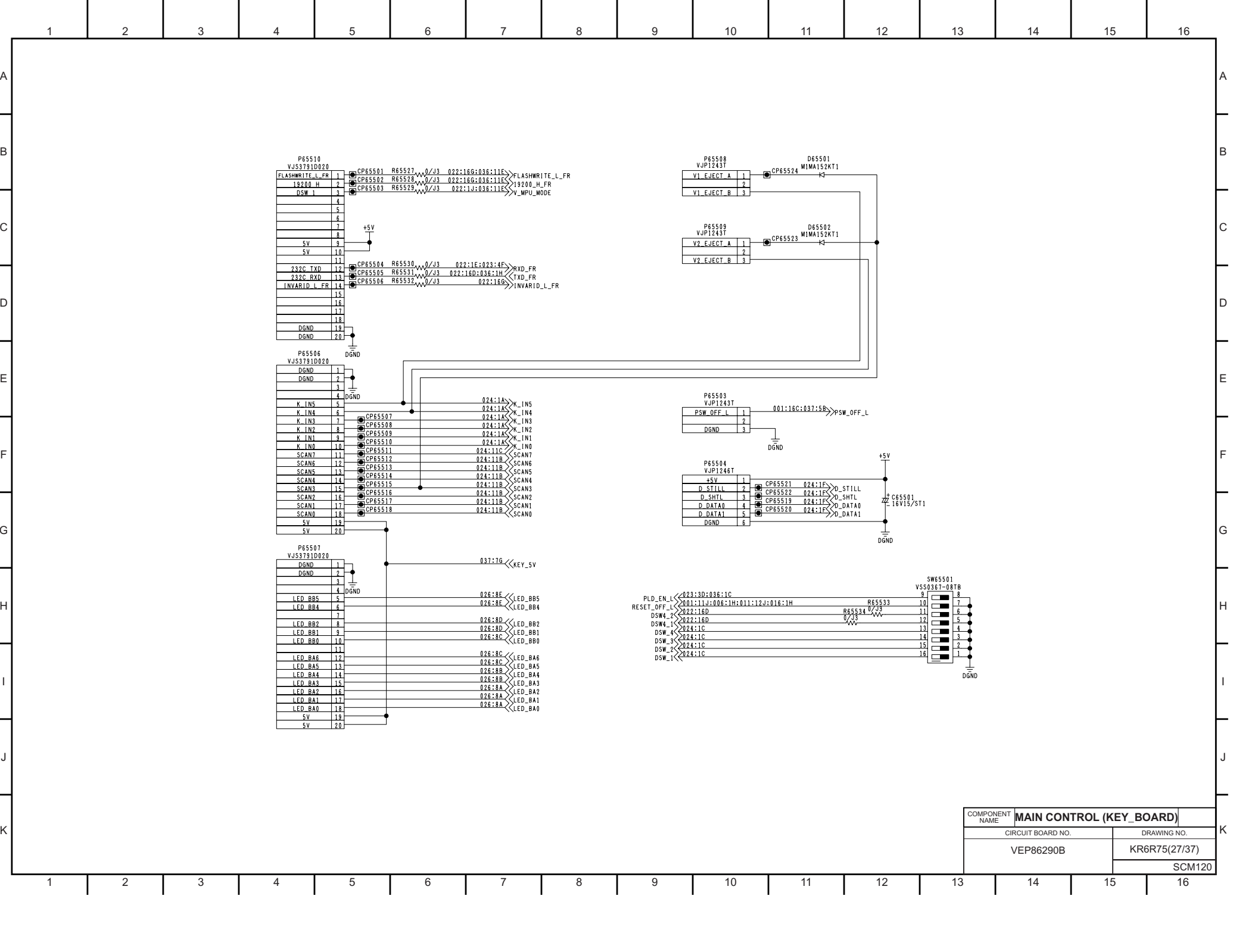


SCM118



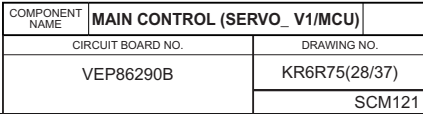




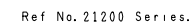


COMPONENT NAME	MAIN CONTROL (KEY_BOARD)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(27/37)
		SCM120

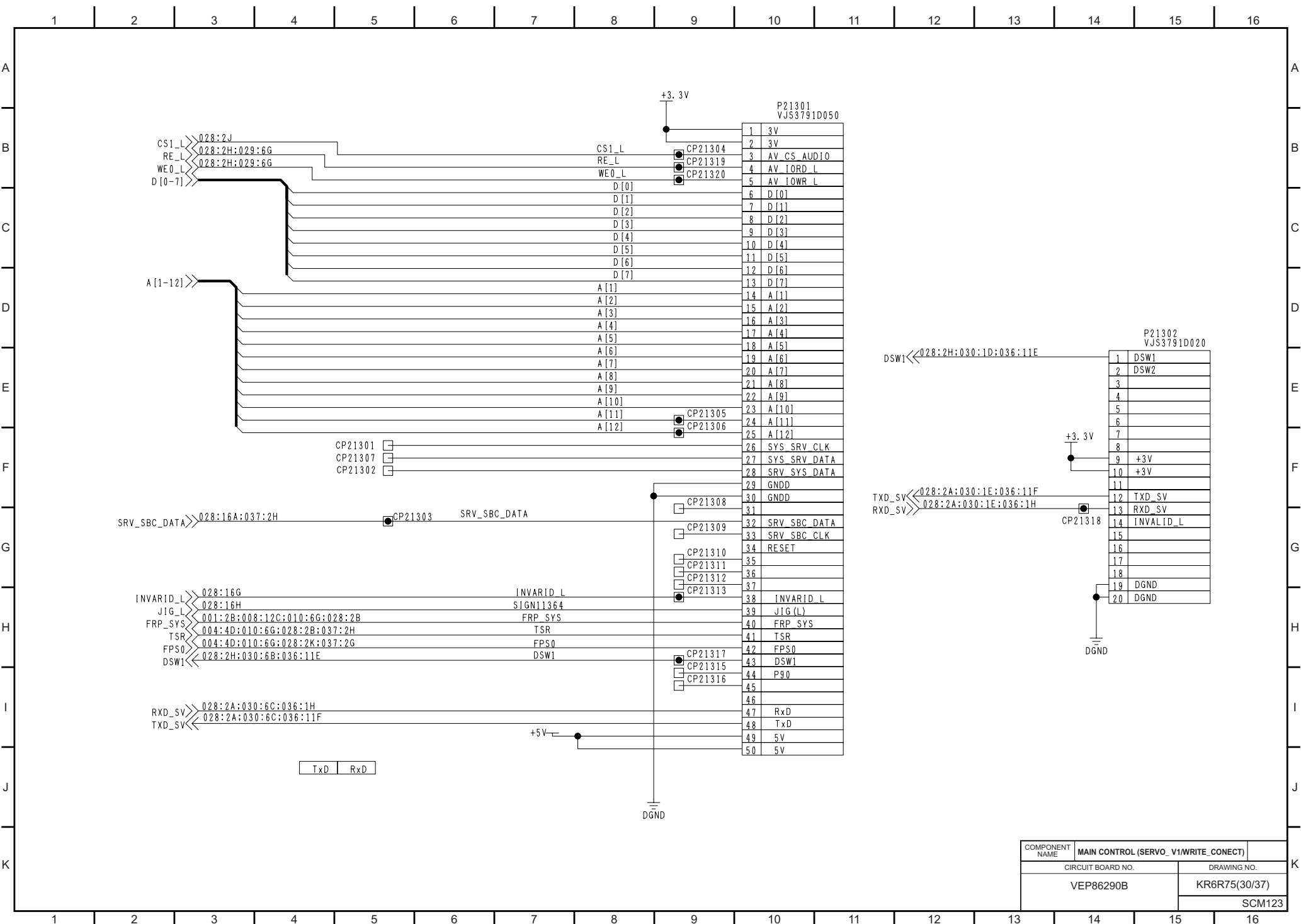




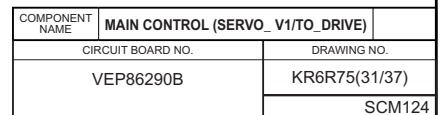


SCM122

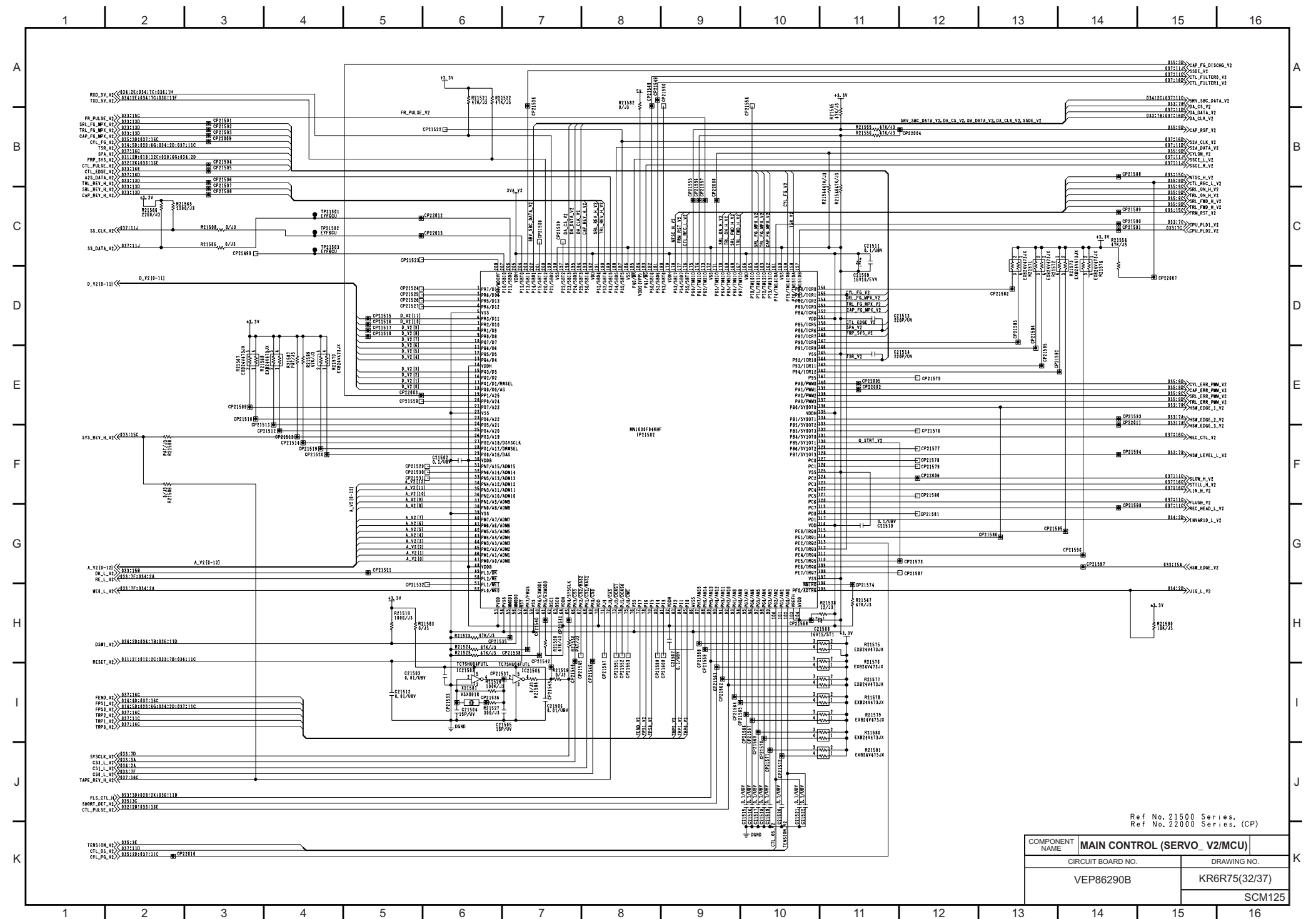












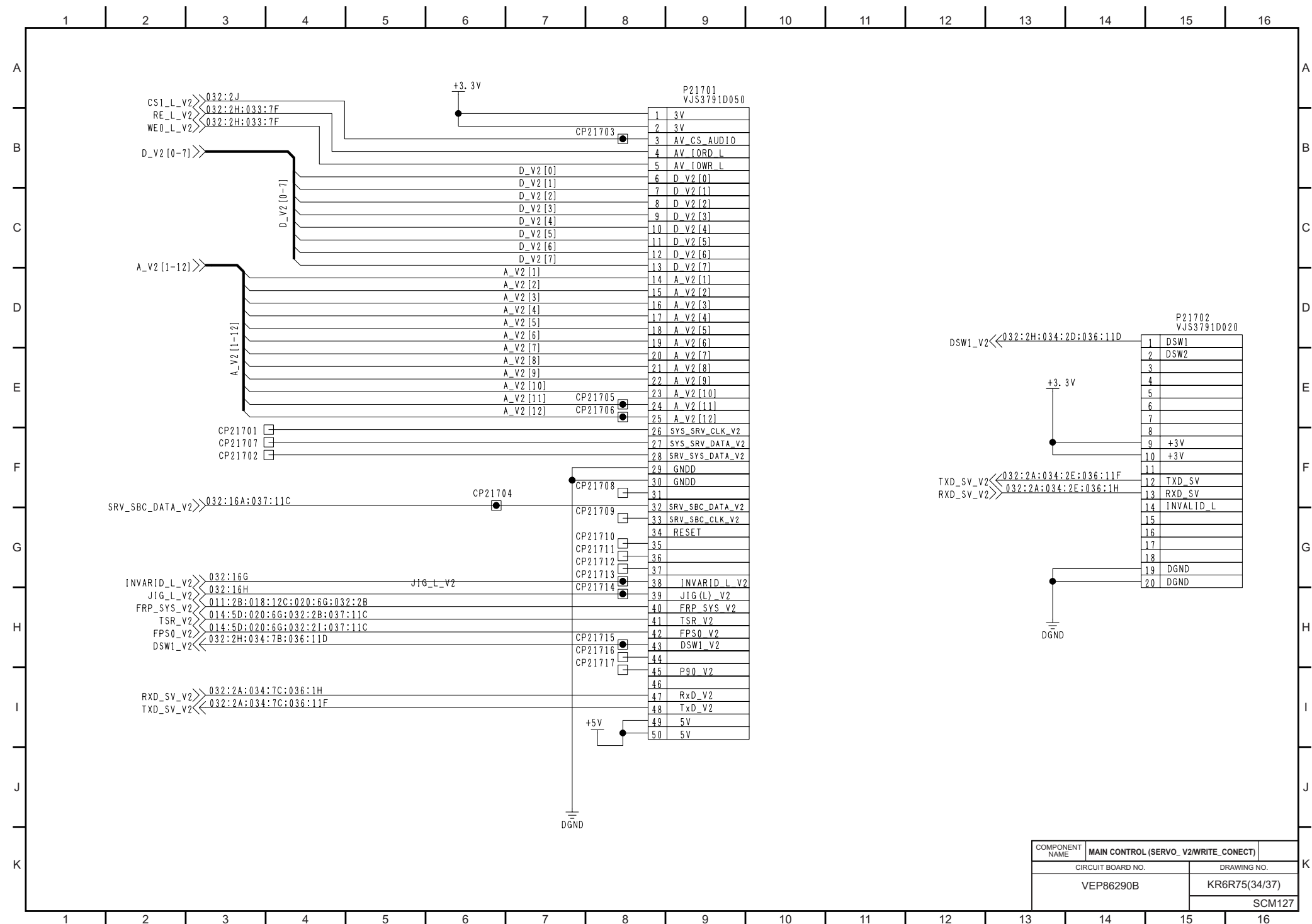
Ref No. 21500 Series.  
Ref No. 22000 Series. (CP)

COMPONENT NAME	MAIN CONTROL (SERVO_ V2/MCU)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86290B	KR6R75(32/37)	
	SCM125	

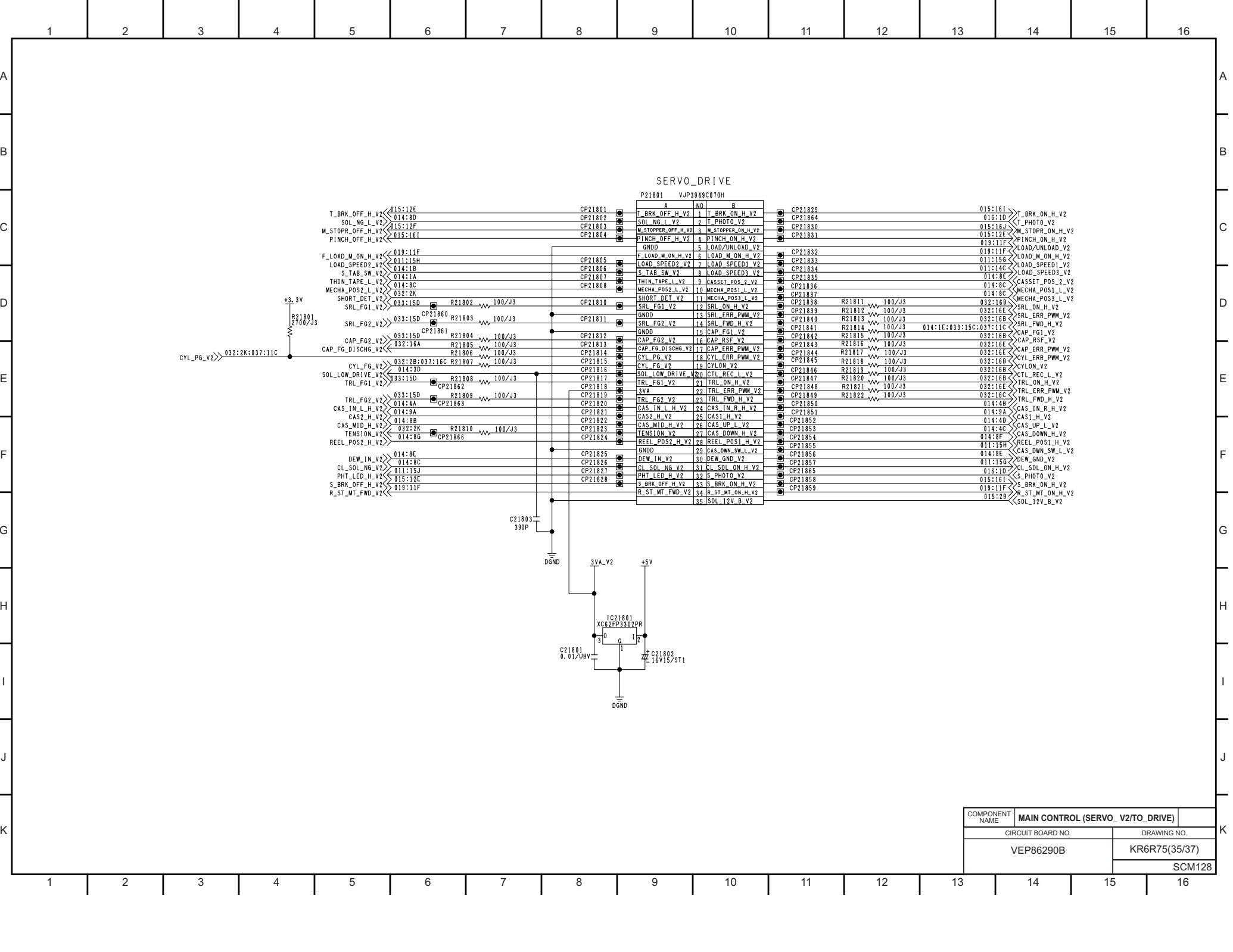






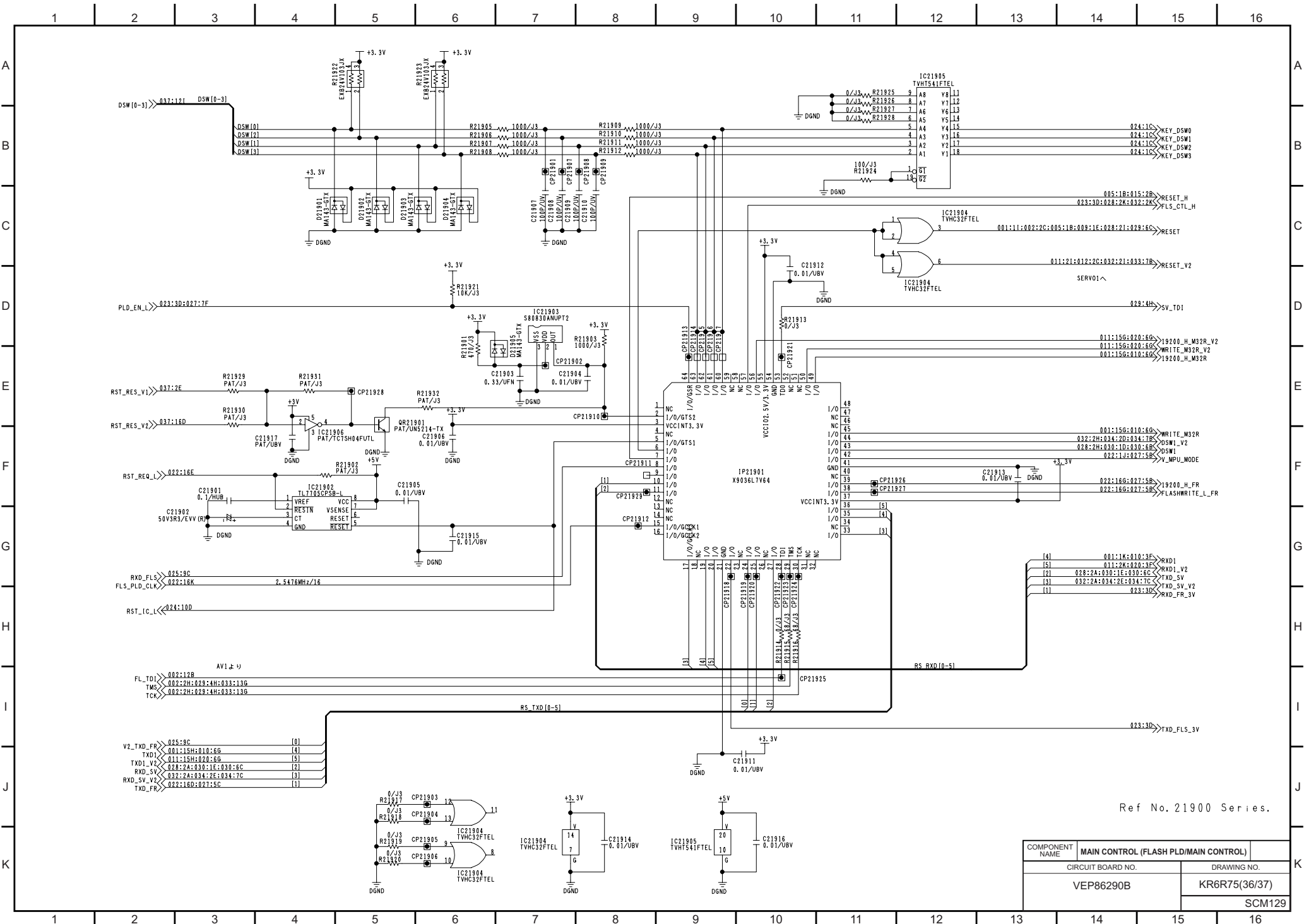




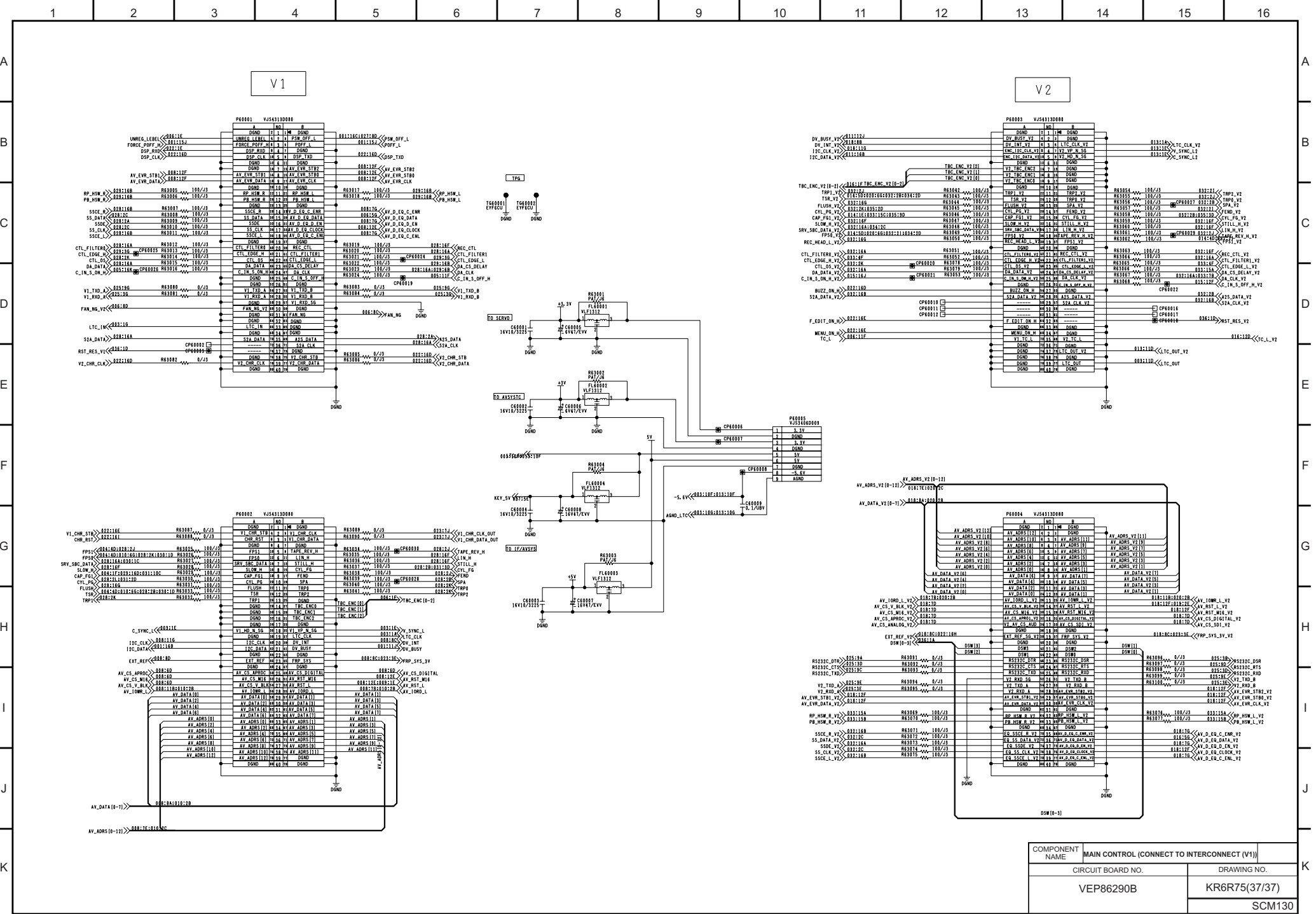


COMPONENT NAME	MAIN CONTROL (SERVO_V2/TO_DRIVE)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(35/37)
SCM128		



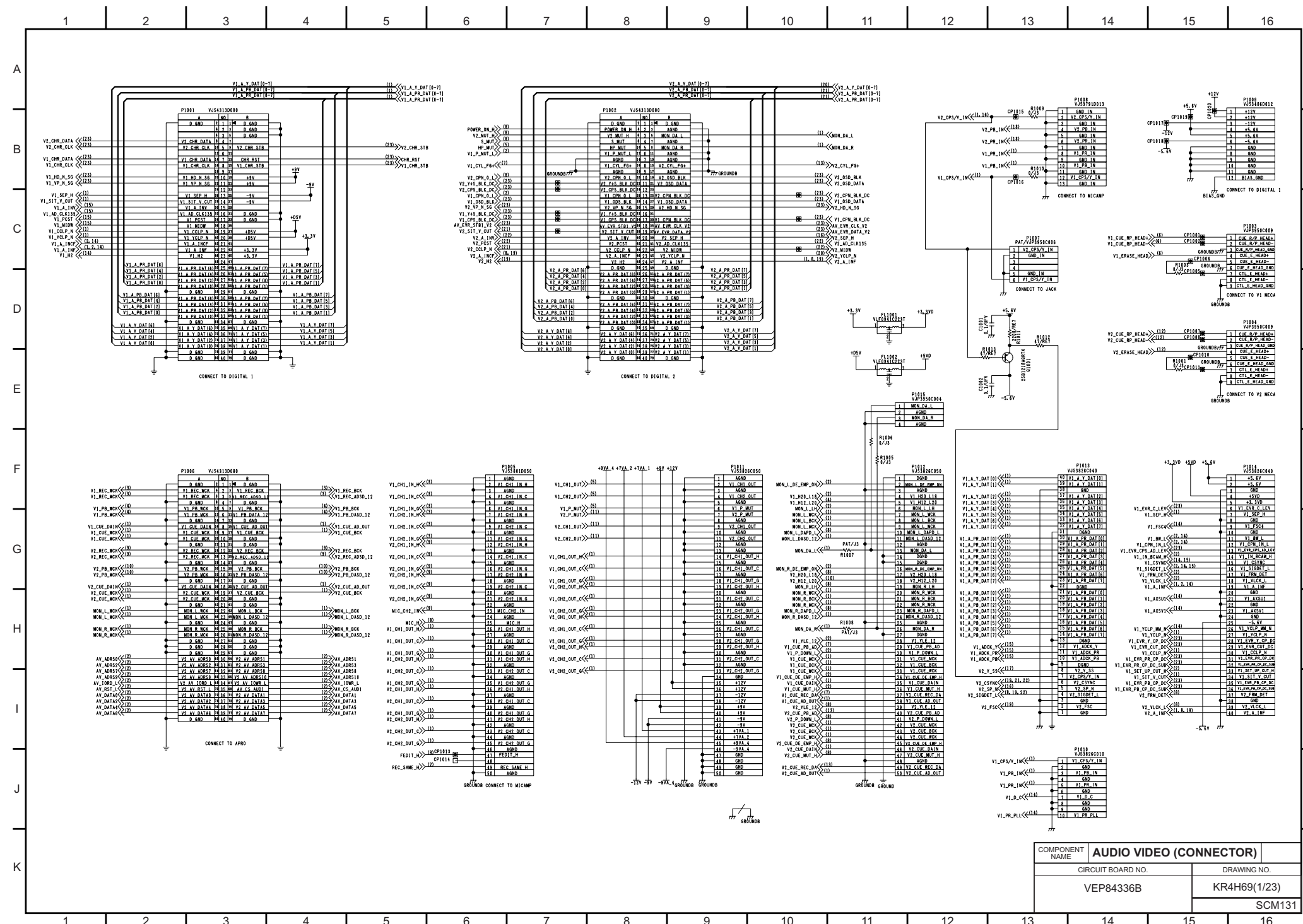




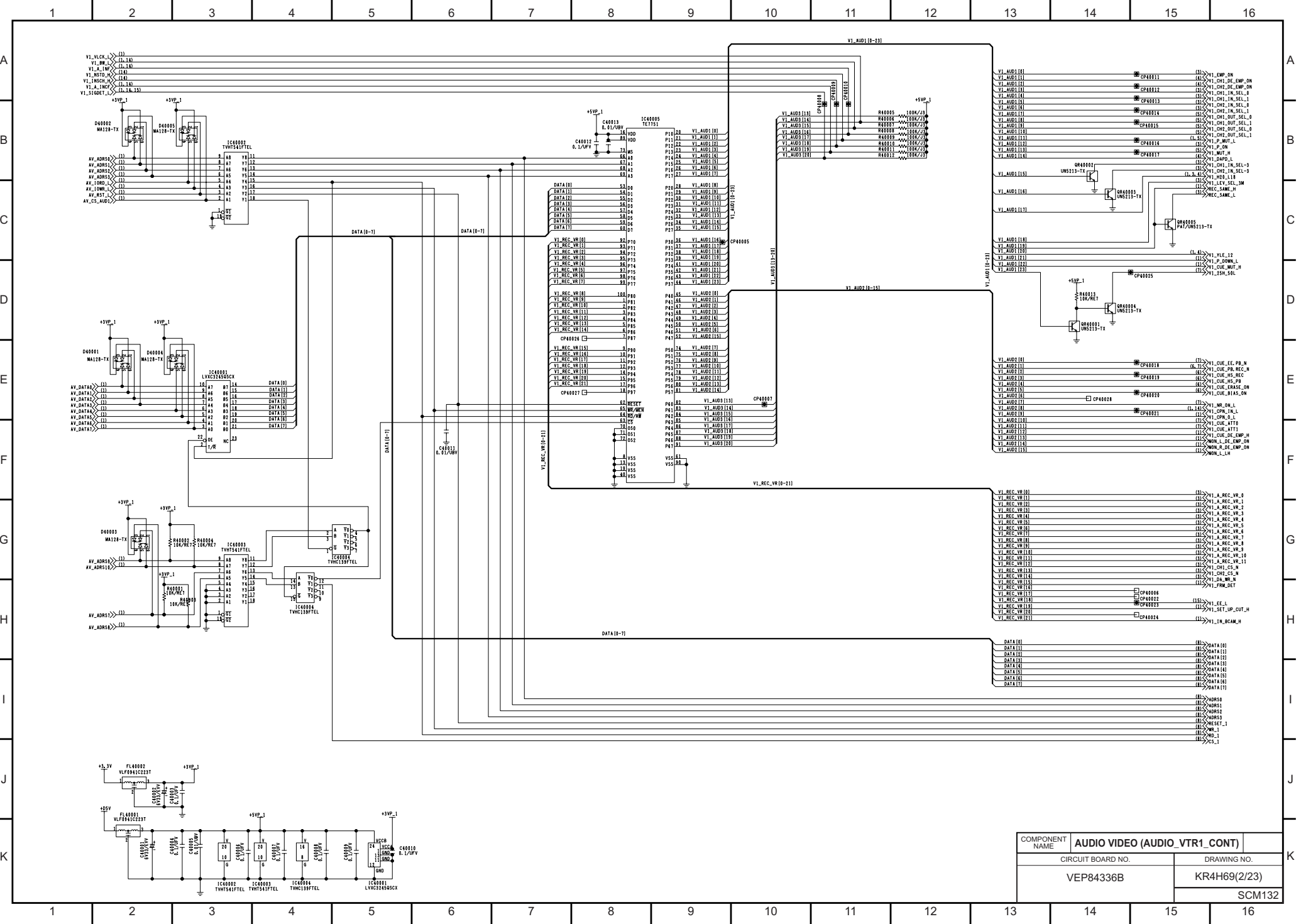


COMPONENT NAME	MAIN CONTROL (CONNECT TO INTERCONNECT (V1))	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(37/37)
		SCM130



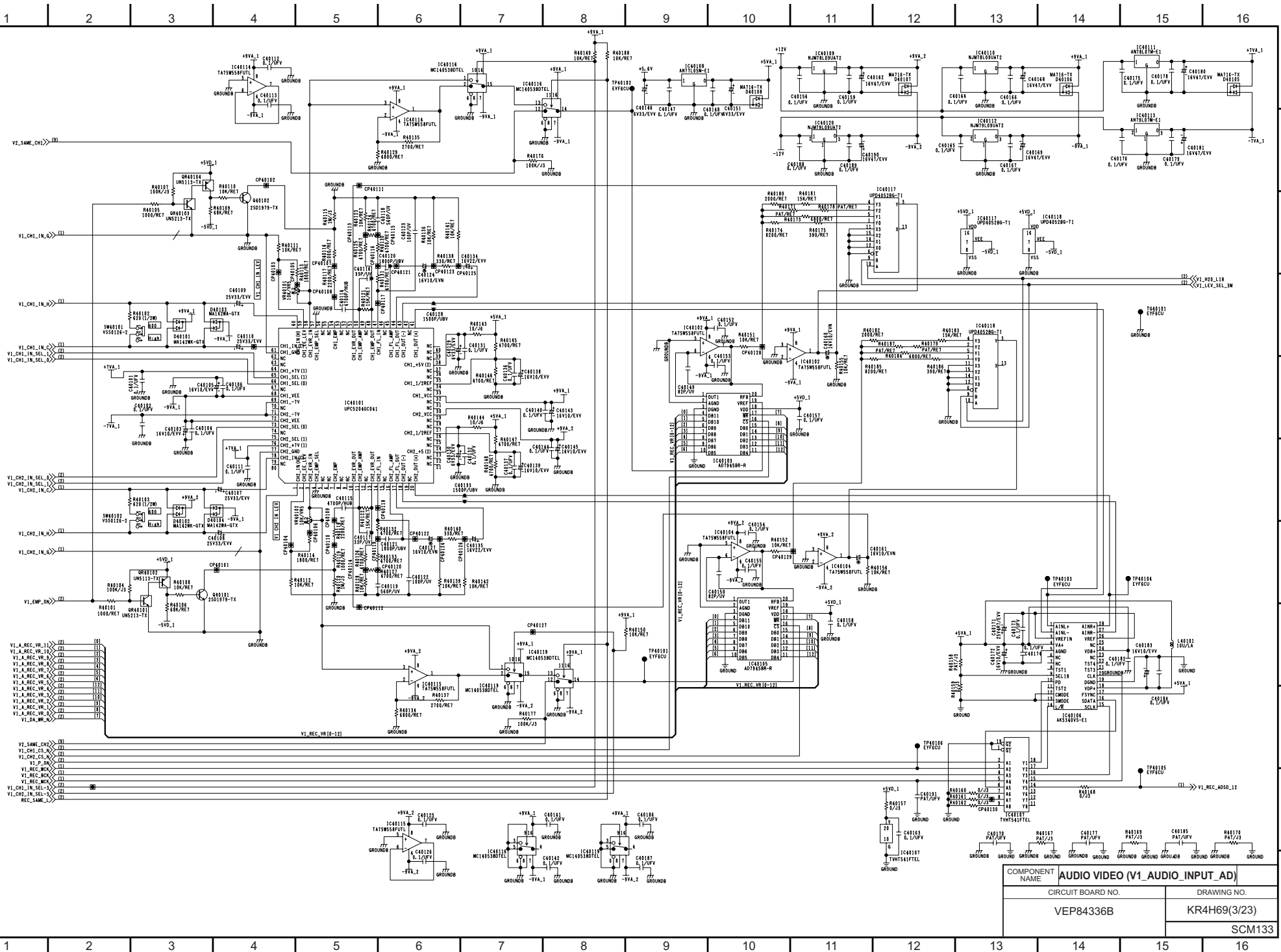




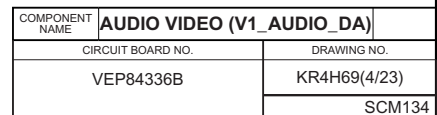


COMPONENT NAME	AUDIO VIDEO (AUDIO_VTR1_CONT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84336B		KR4H69(2/23)
		SCM132

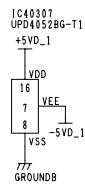
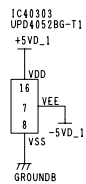
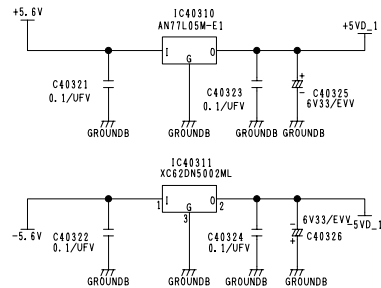
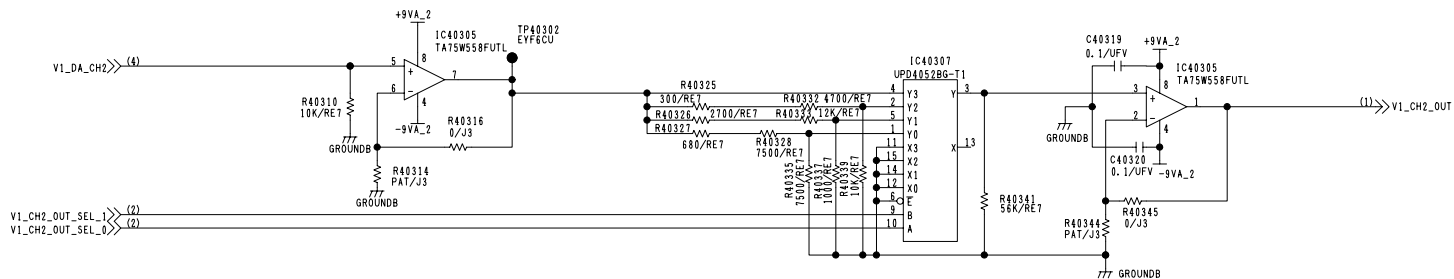
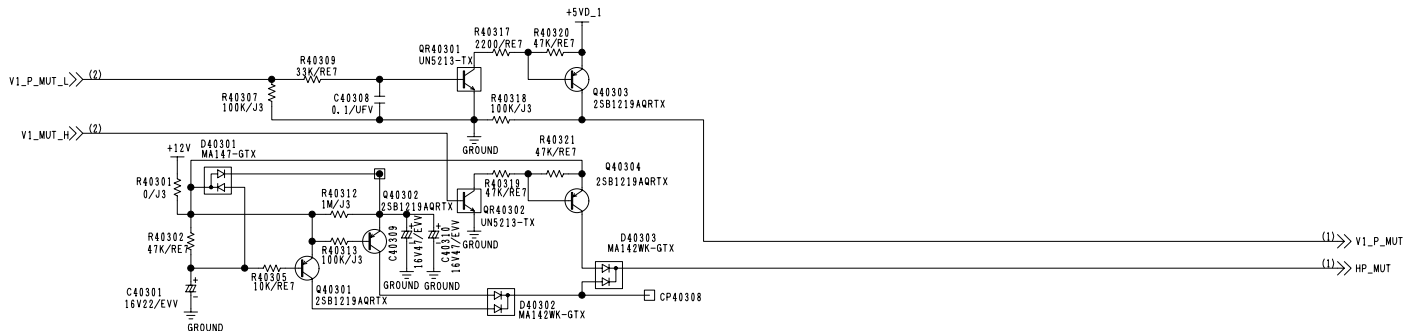
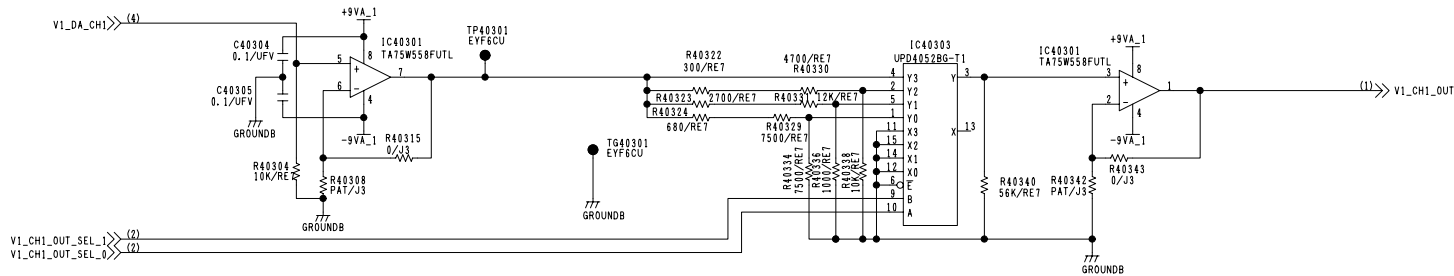






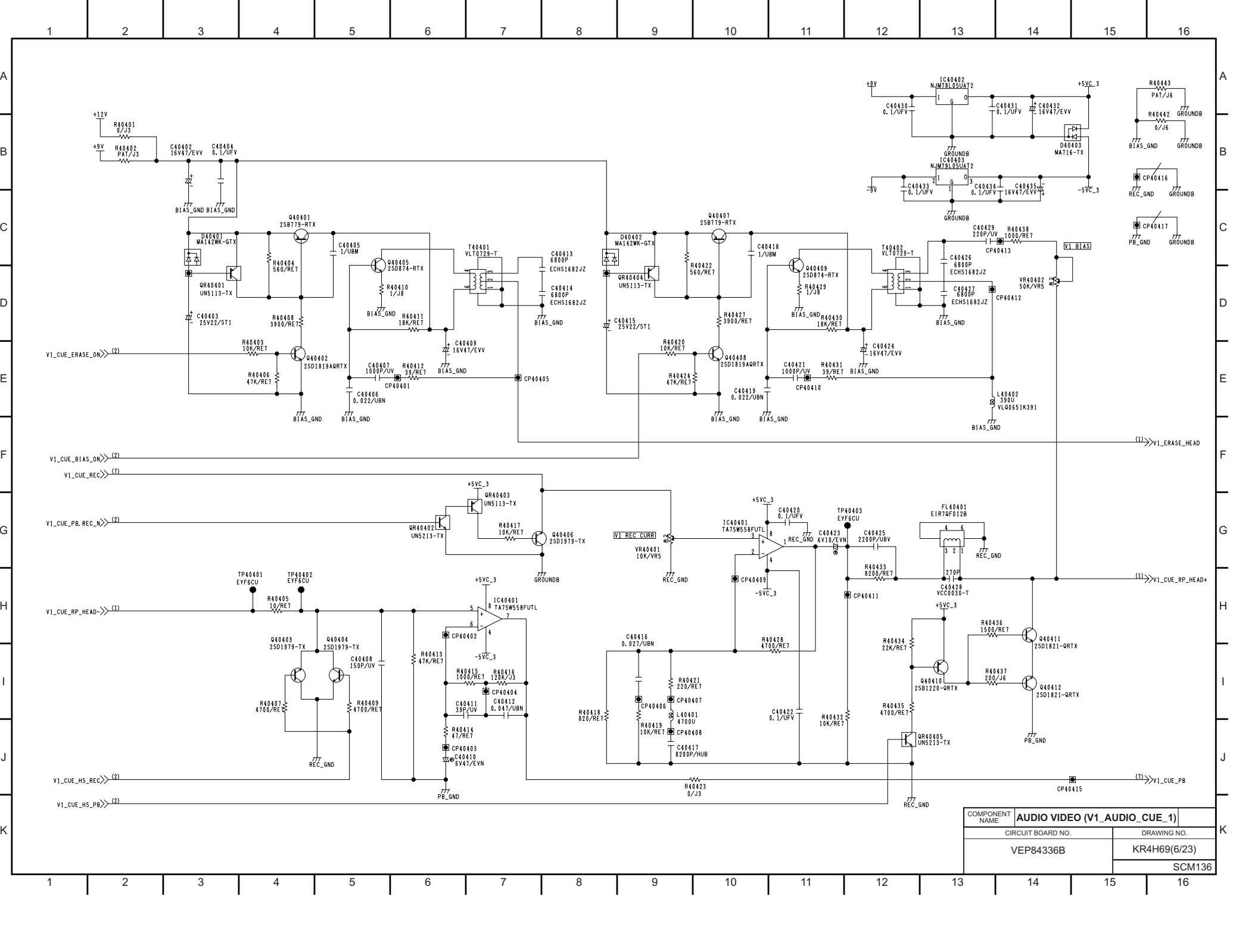






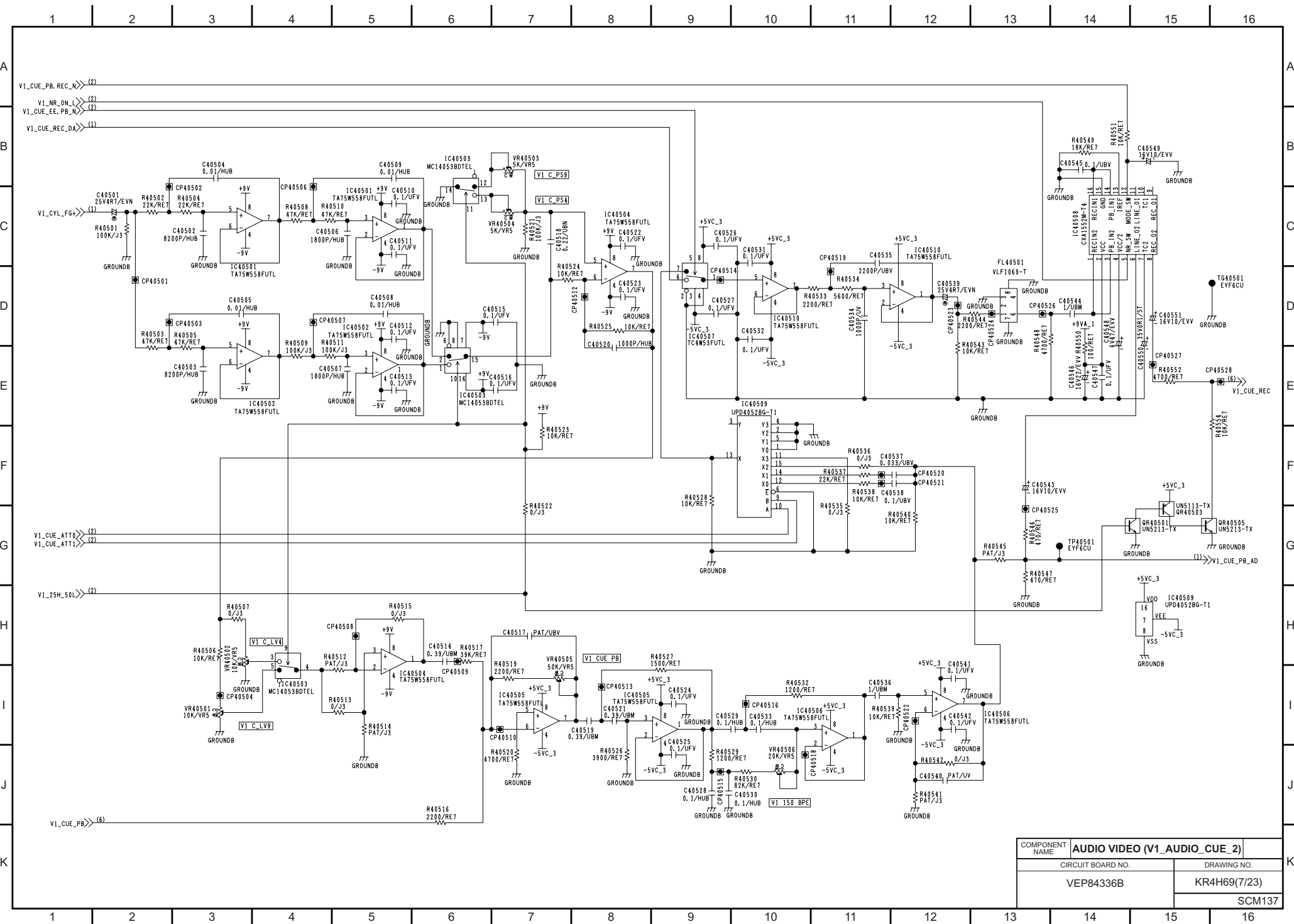
COMPONENT NAME	AUDIO VIDEO (V1_AUDIO_OUTPUT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84336B		KR4H69(5/23)
SCM135		



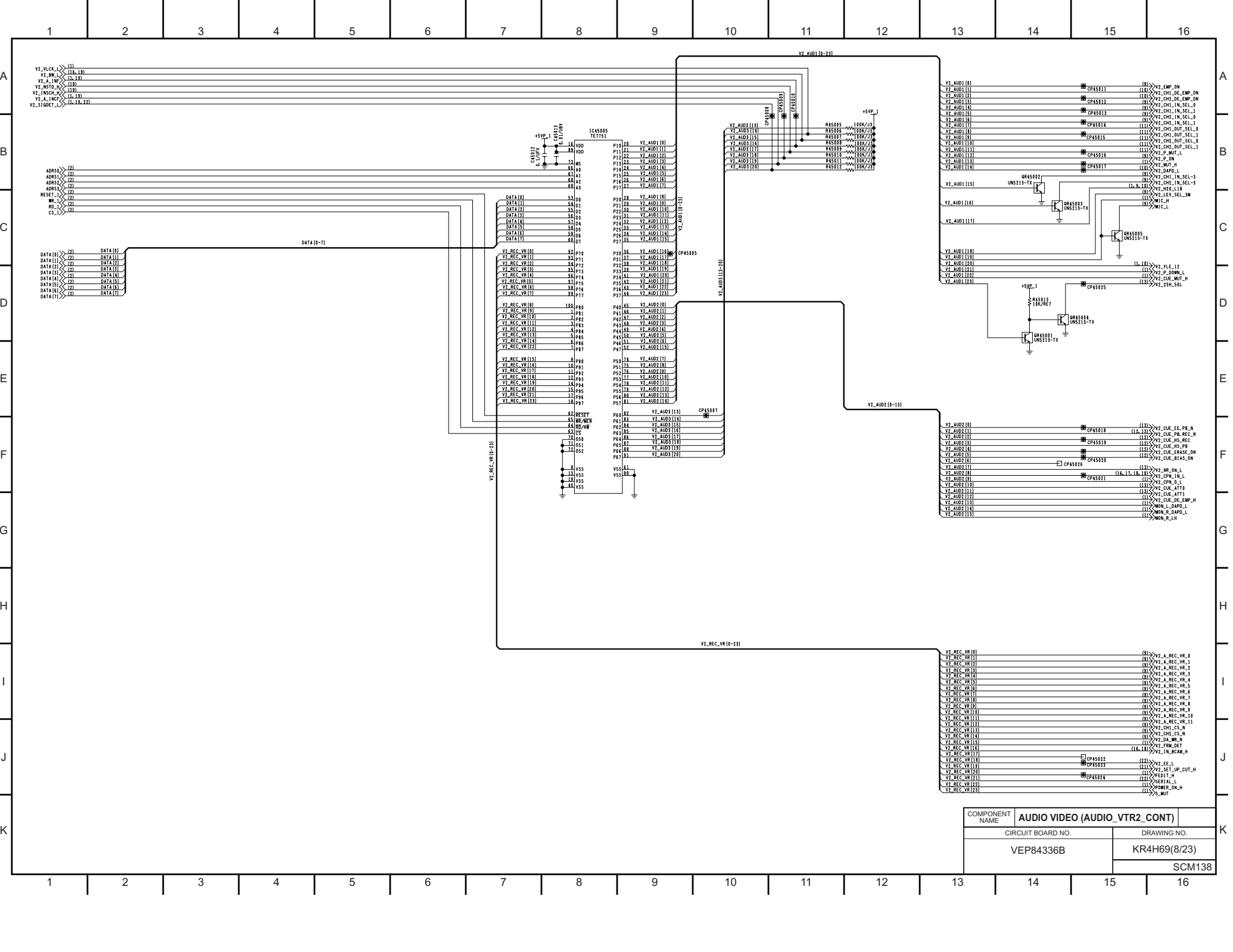


COMPONENT NAME	AUDIO VIDEO (V1_AUDIO_CUE_1)	
CIRCUIT BOARD NO.	VEP84336B	DRAWING NO.
		KR4H69(6/23)
		SCM136



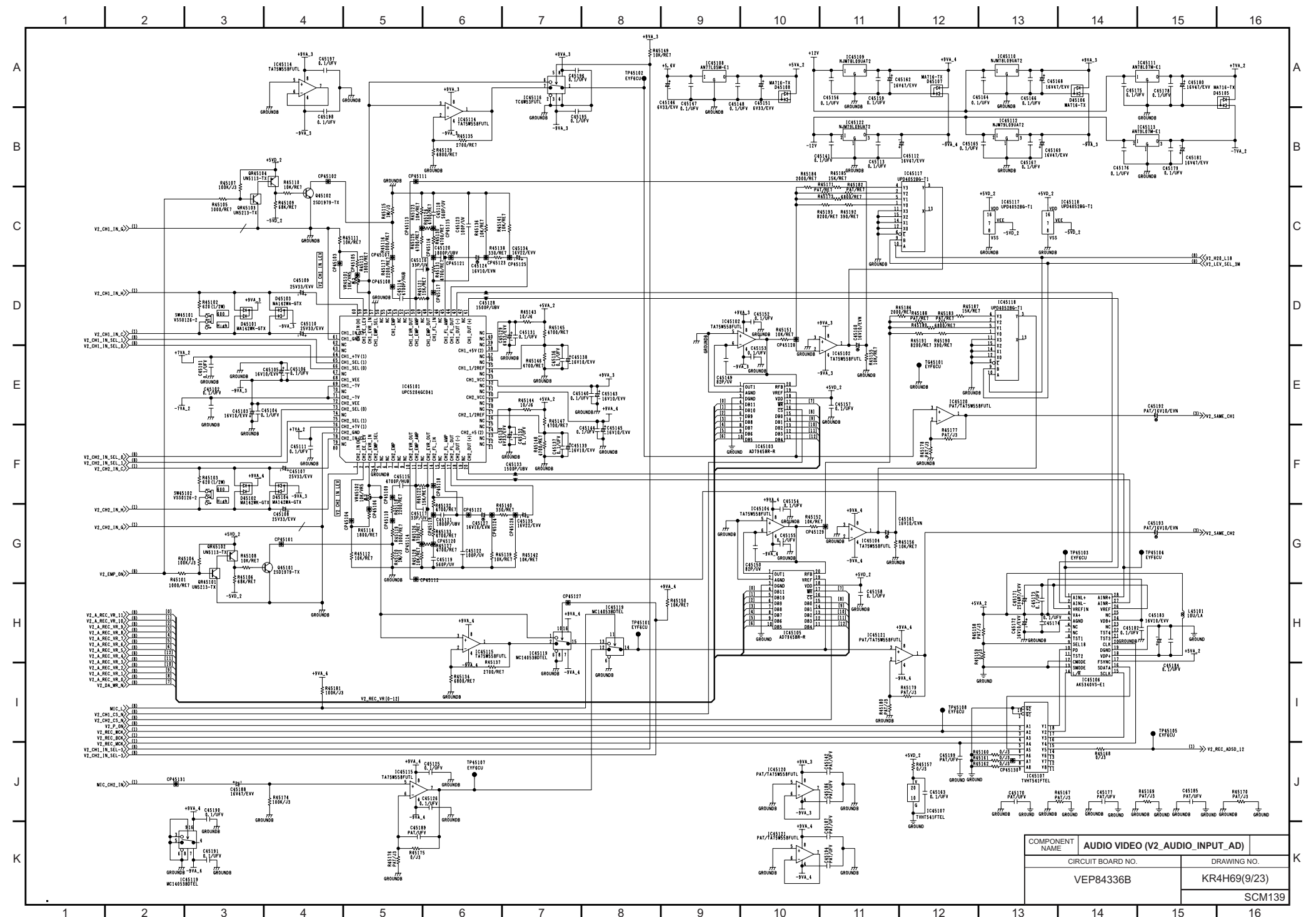






COMPONENT NAME		AUDIO VIDEO (AUDIO_VTR2_CONT)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84336B		KR4H69(8/23)	
		SCM138	





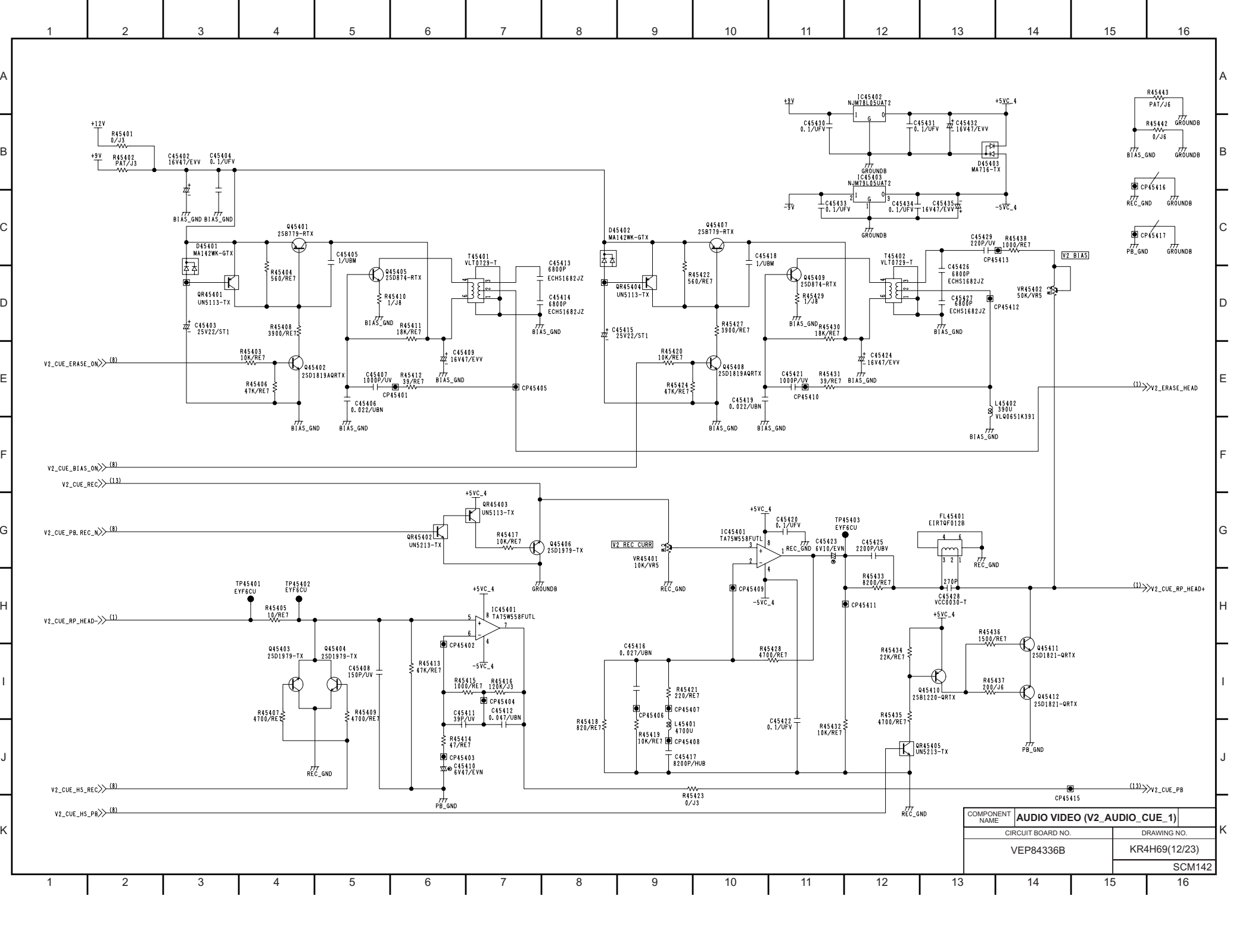






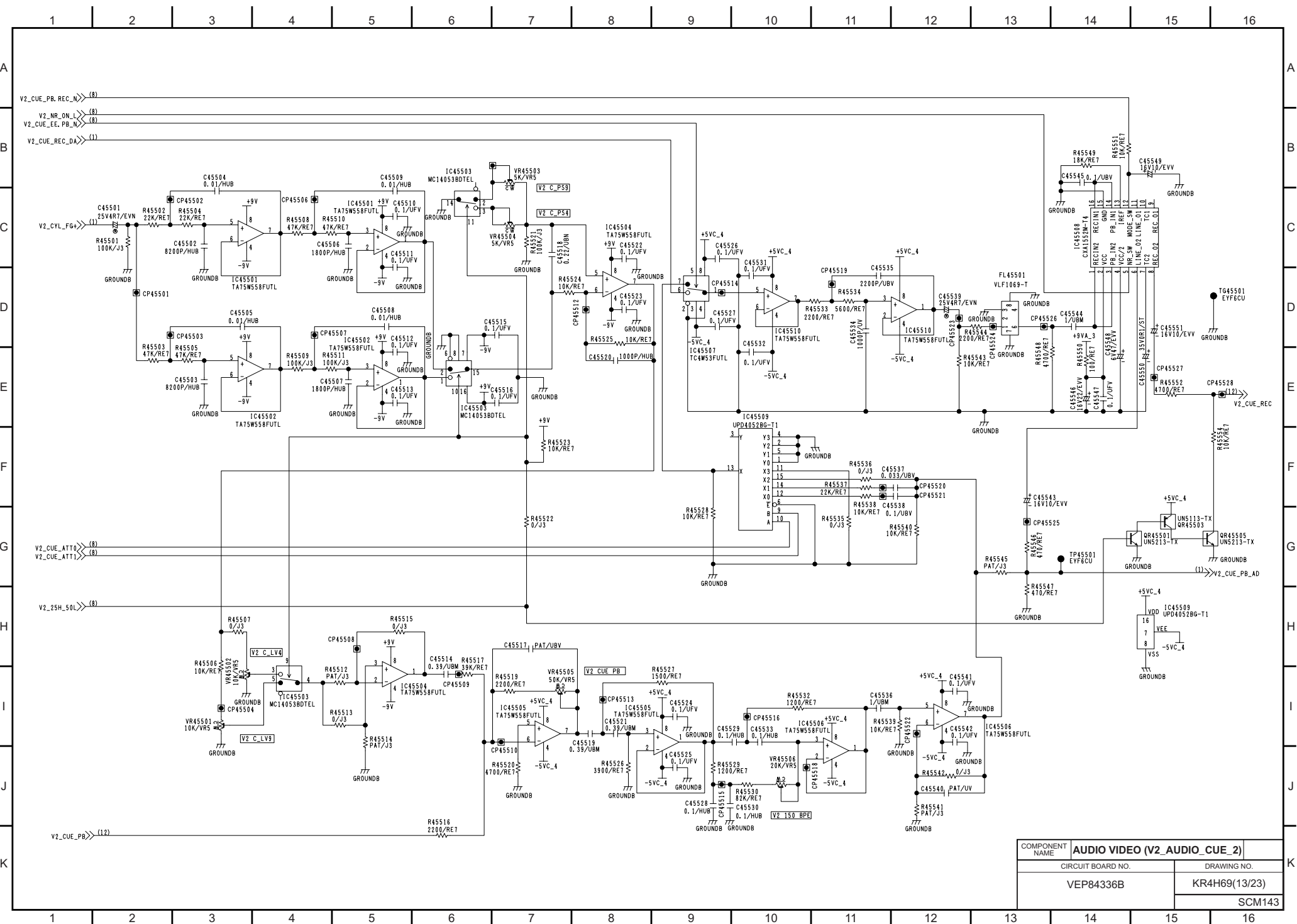




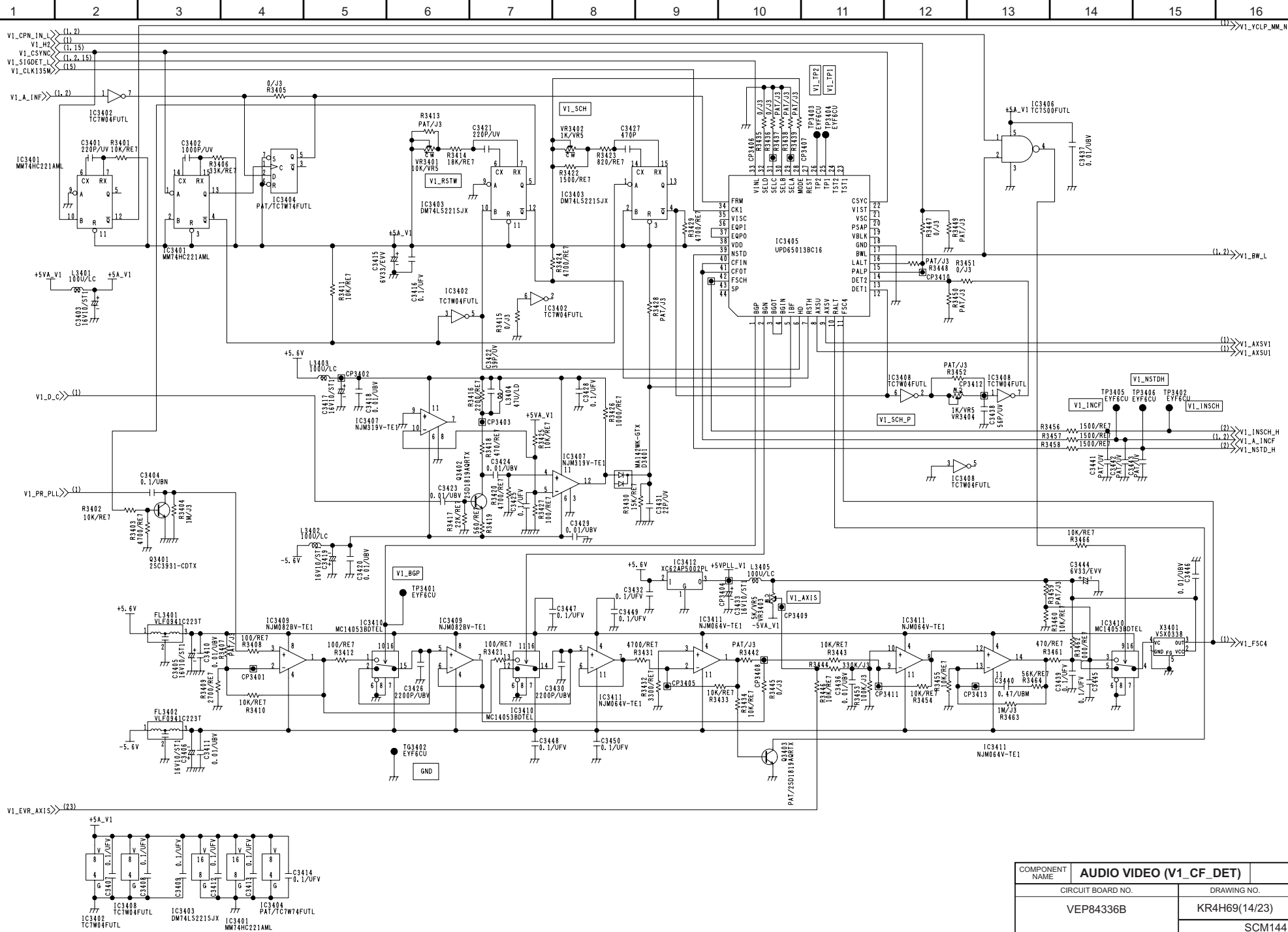


COMPONENT NAME	AUDIO VIDEO (V2_AUDIO_CUE_1)	
CIRCUIT BOARD NO.	VEP84336B	DRAWING NO.
		KR4H69(12/23)
		SCM142



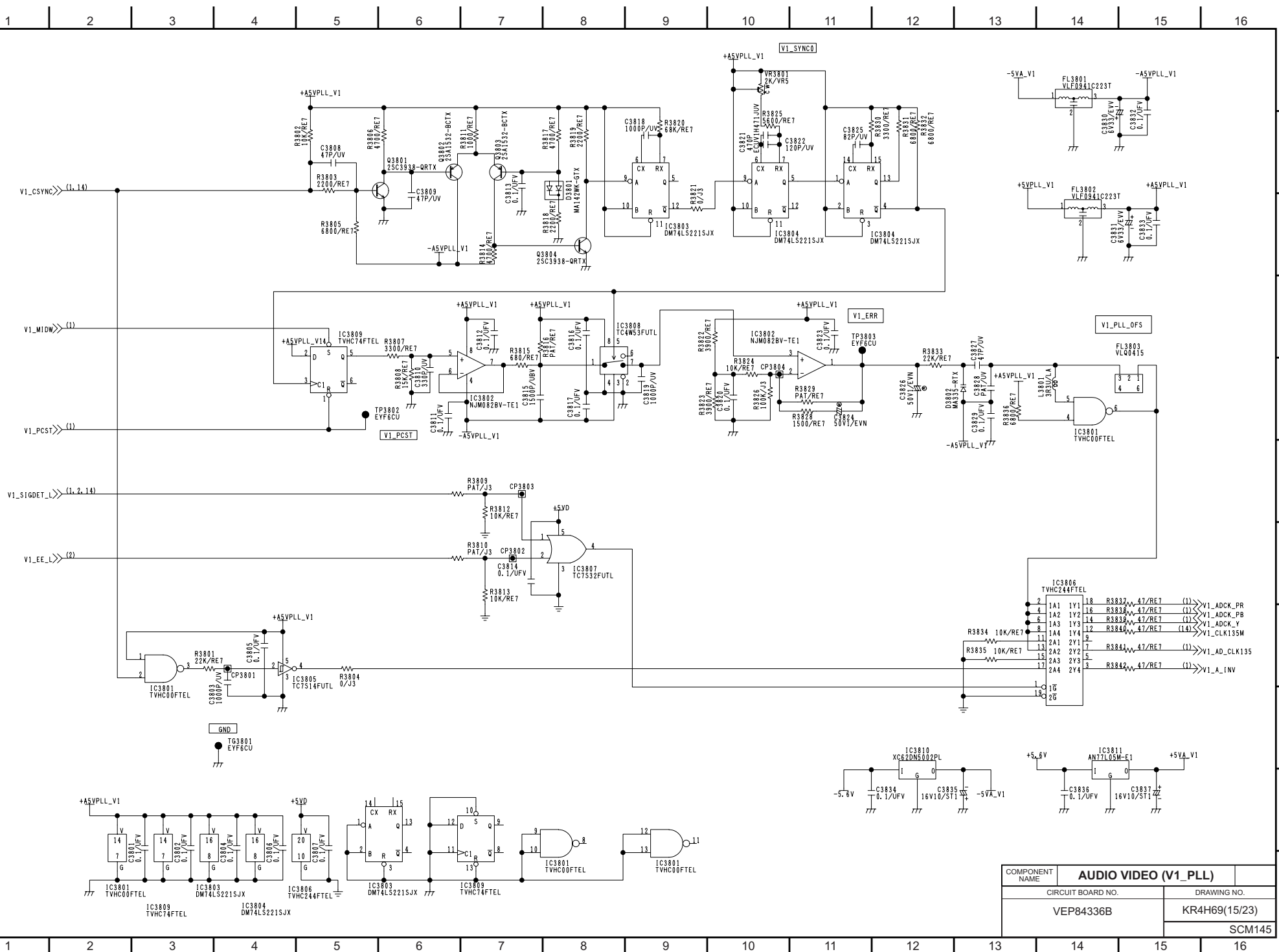




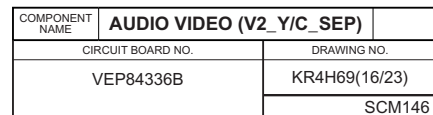


COMPONENT NAME	AUDIO VIDEO (V1_CF_DET)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84336B	KR4H69(14/23)	
	SCM144	

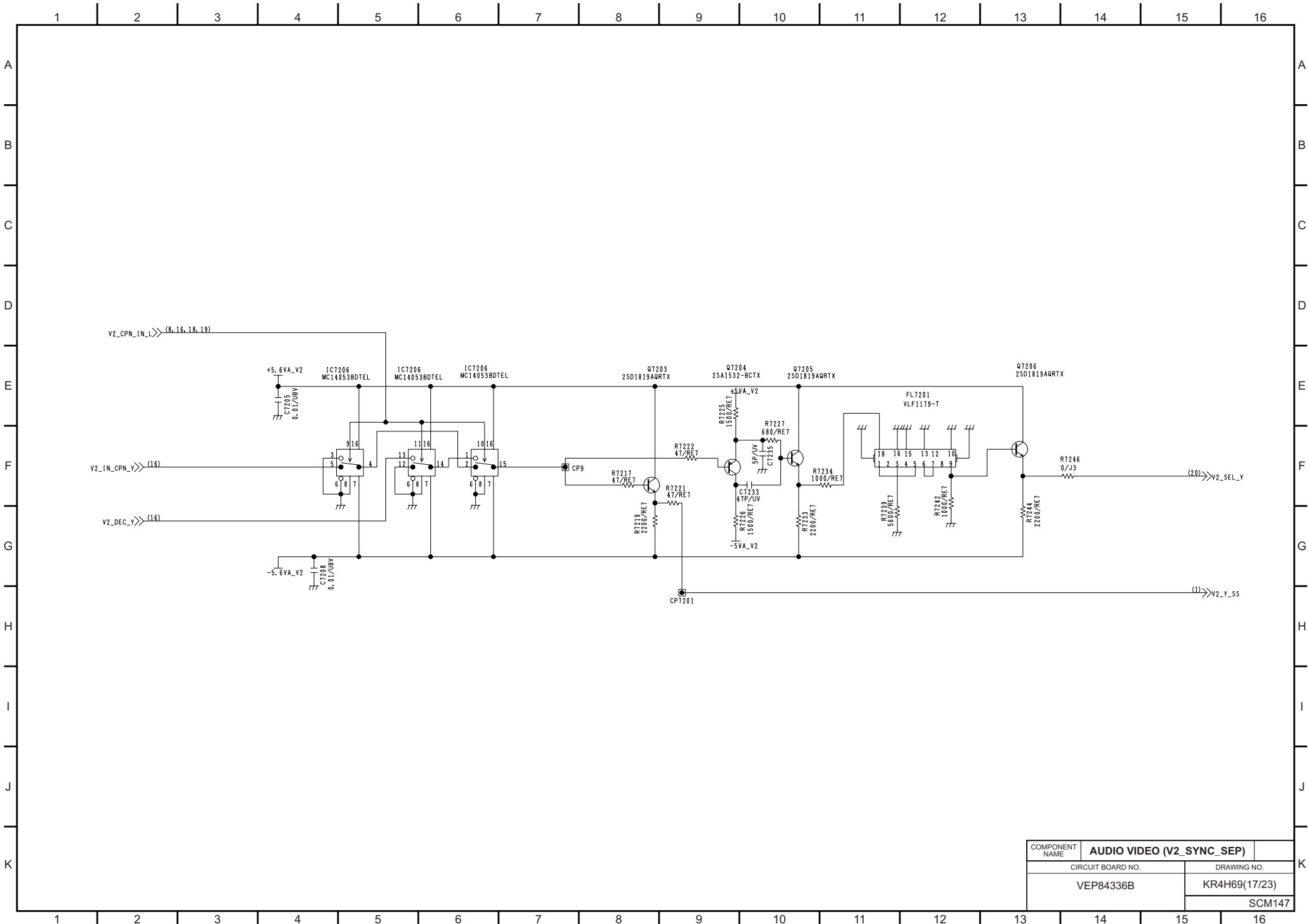






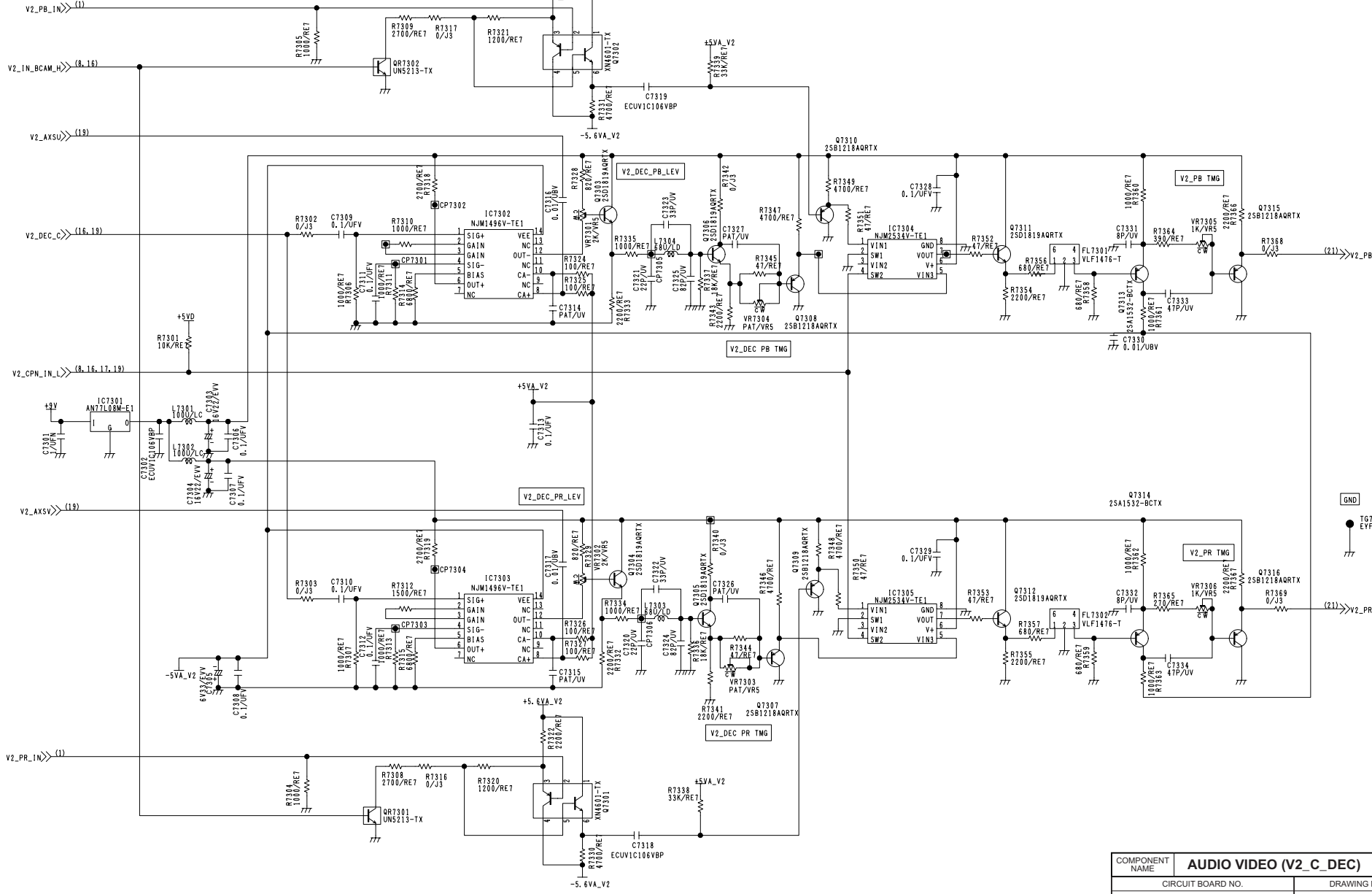






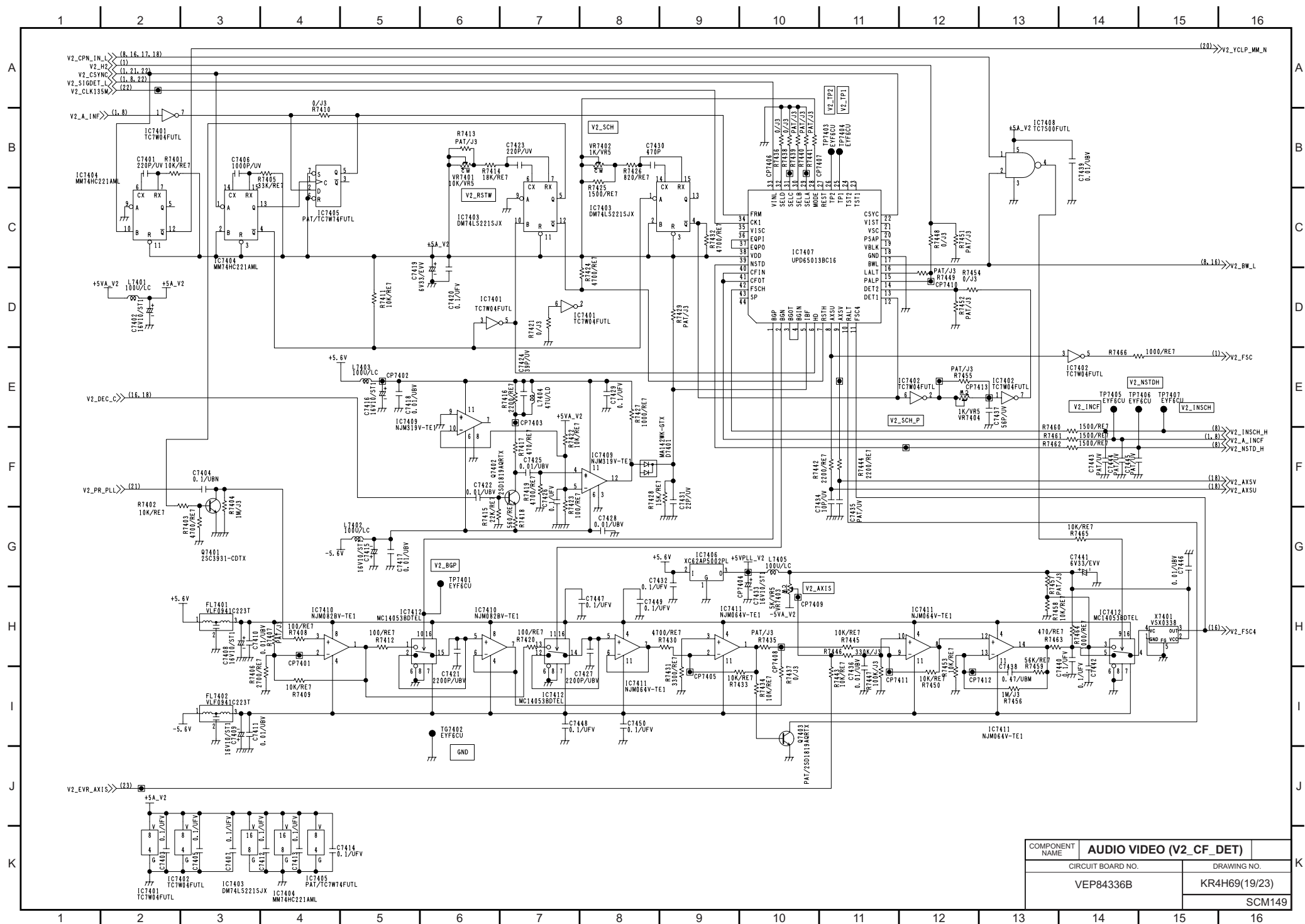
COMPONENT NAME	AUDIO VIDEO (V2_SYNC_SEP)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84336B		KR4H69(17/23)
		SCM147



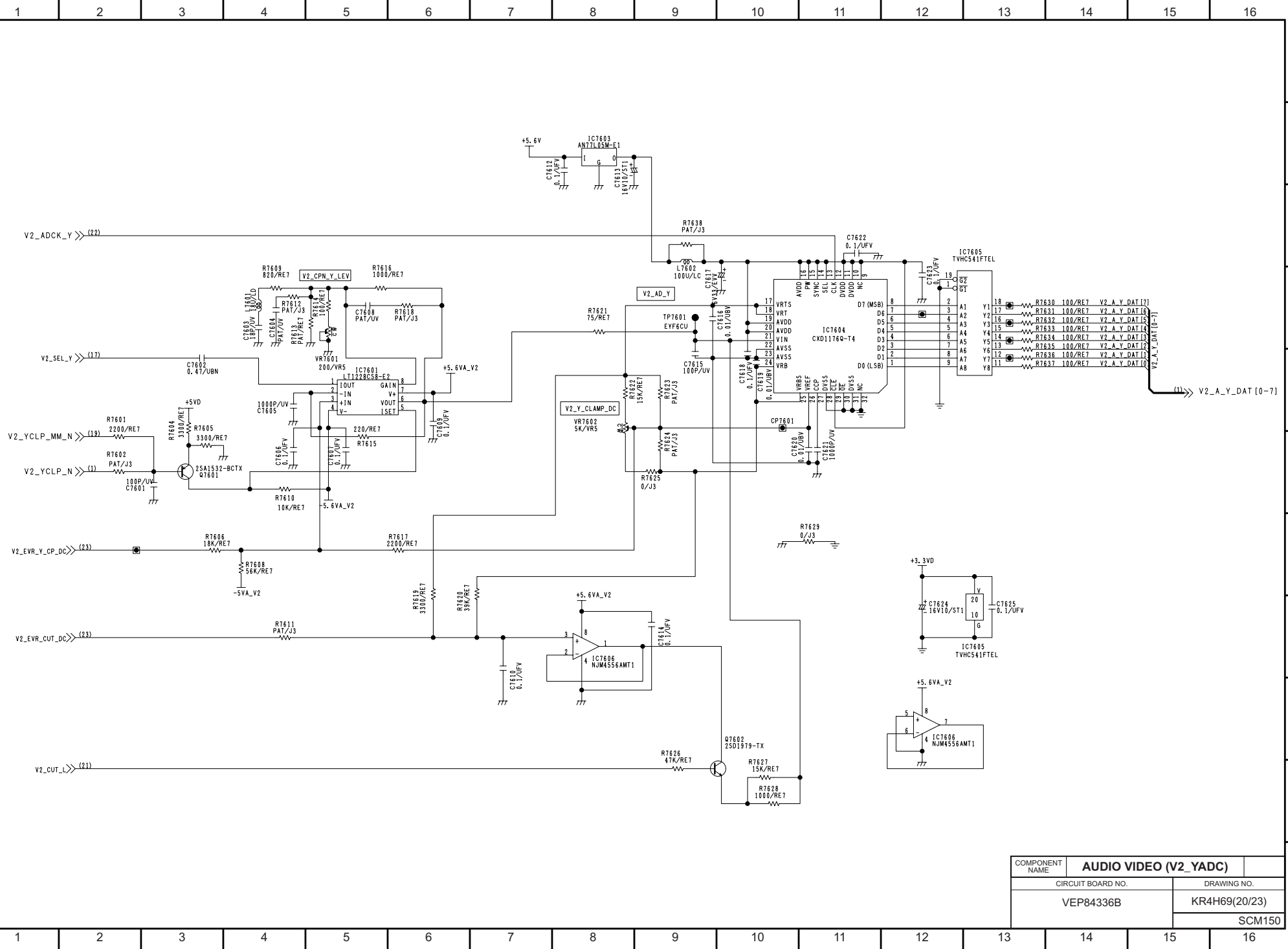


COMPONENT NAME	AUDIO VIDEO (V2_C_DEC)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84336B		KR4H69(18/23)
SCM148		



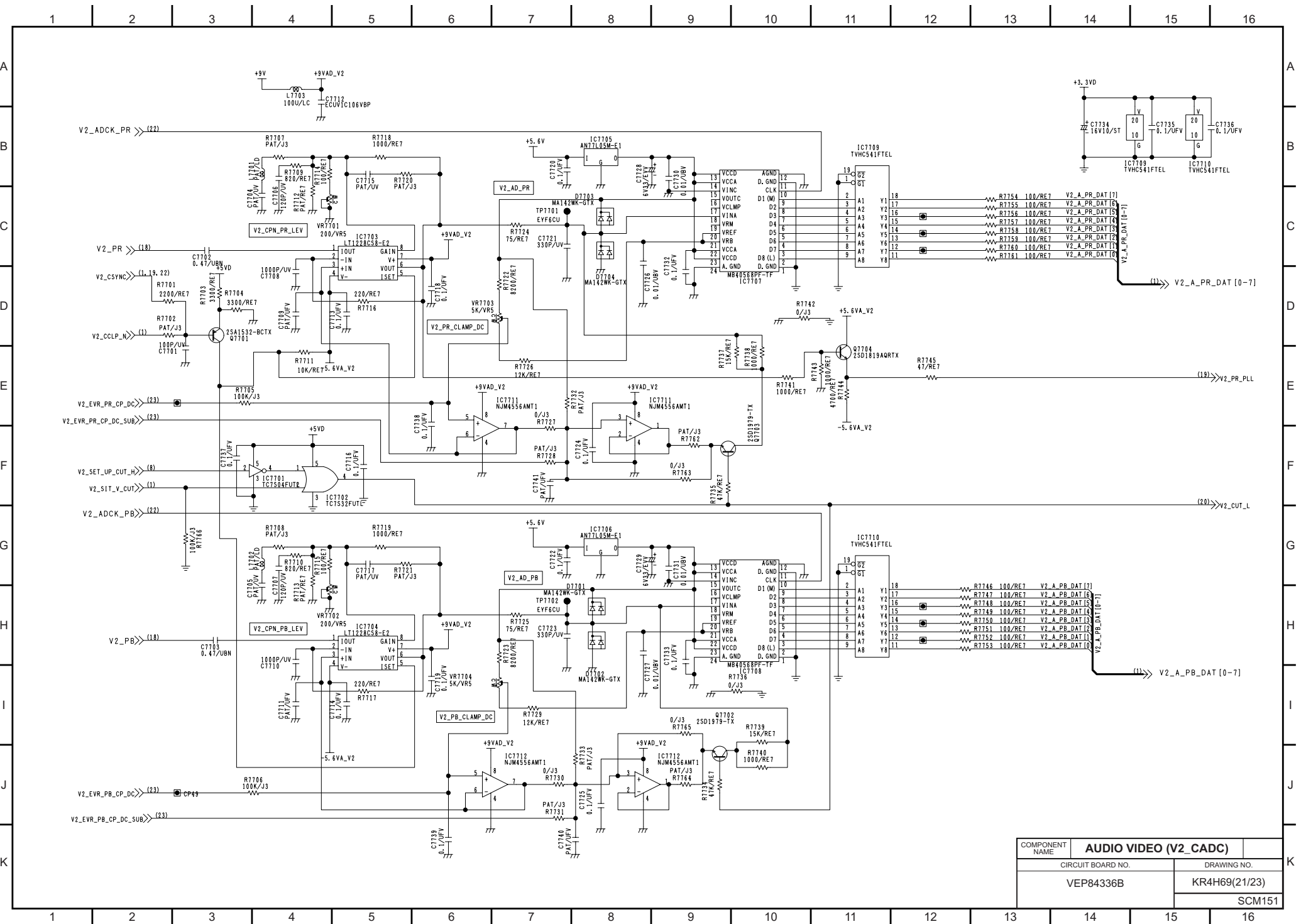






COMPONENT NAME	AUDIO VIDEO (V2_YADC)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84336B		KR4H69(20/23)	
		SCM150	





COMPONENT NAME		AUDIO VIDEO (V2_CADC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84336B		KR4H69(21/23)	
		SCM151	

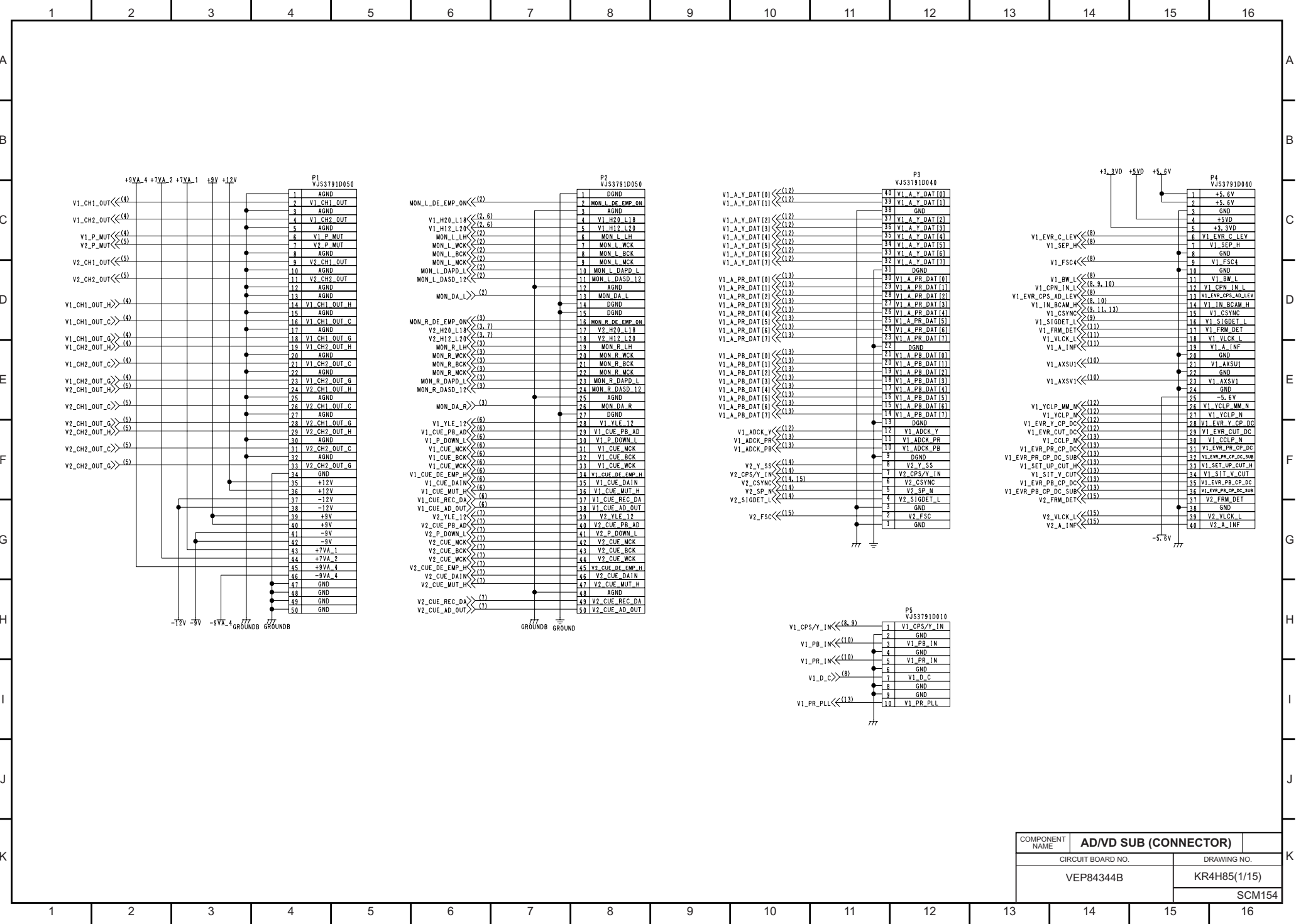






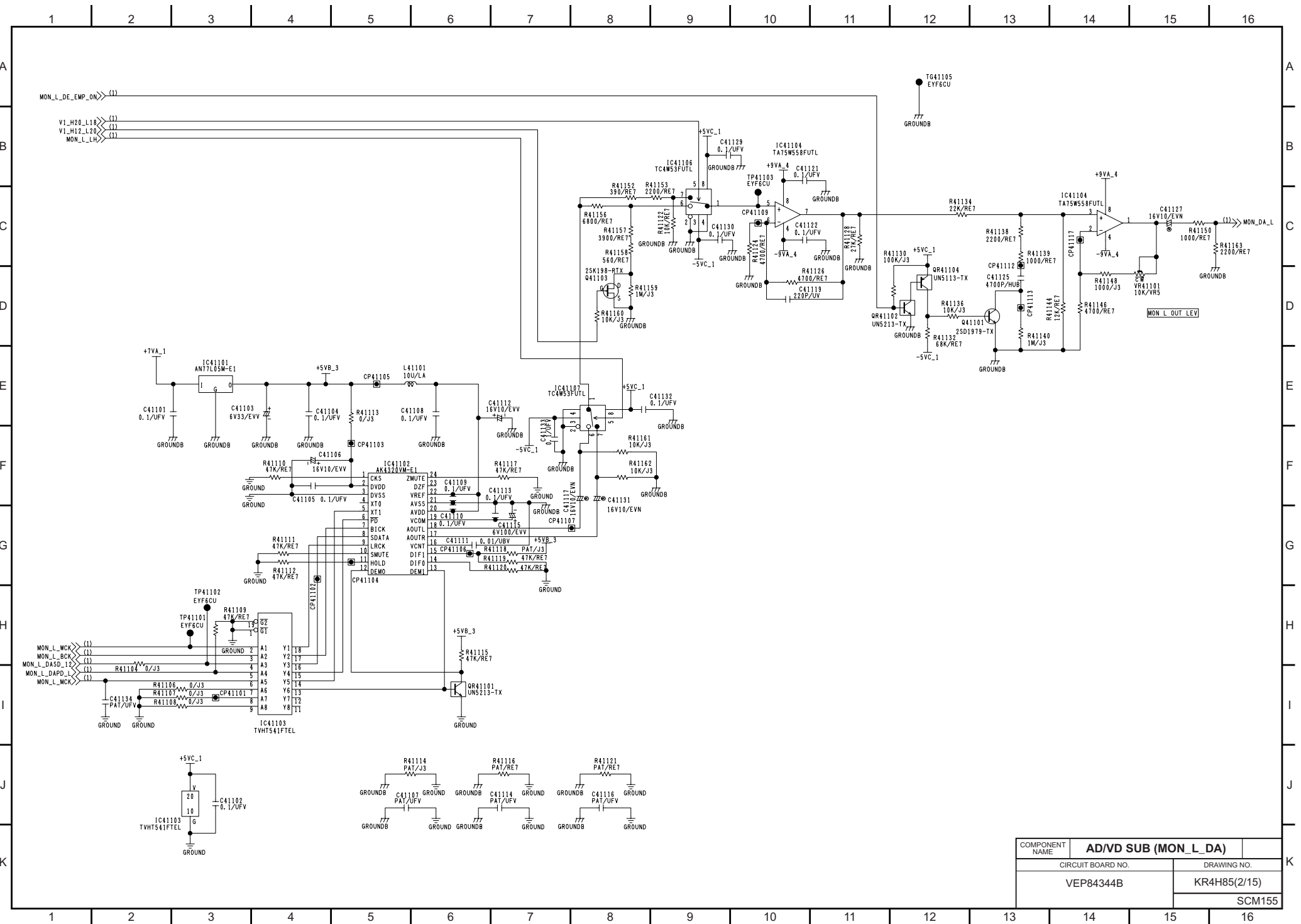






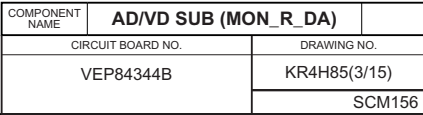
COMPONENT NAME		AD/VD SUB (CONNECTOR)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84344B		KR4H85(1/15)	
		SCM154	





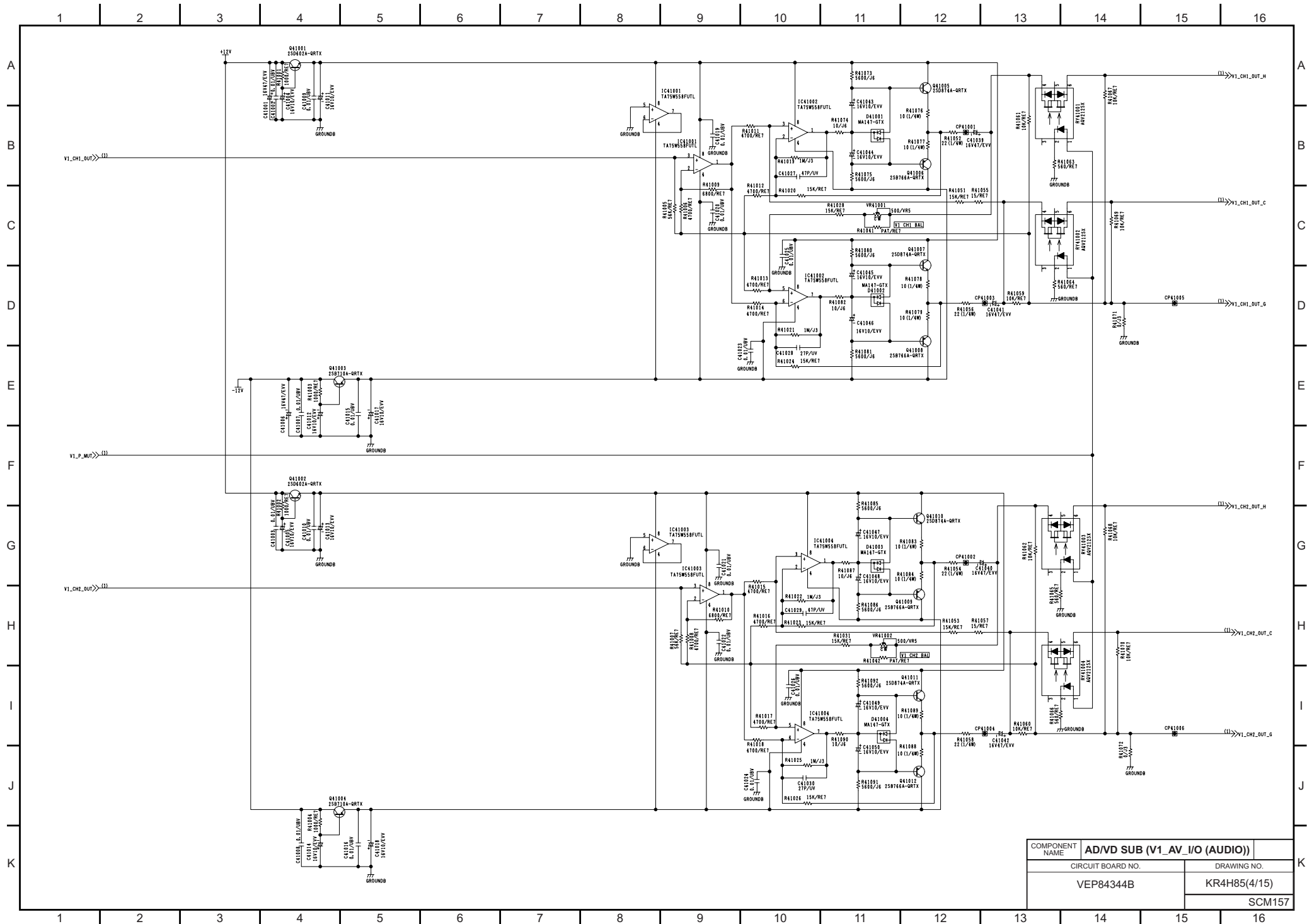
COMPONENT NAME		AD/VD SUB (MON_L_DA)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84344B		KR4H85(2/15)	
		SCM155	



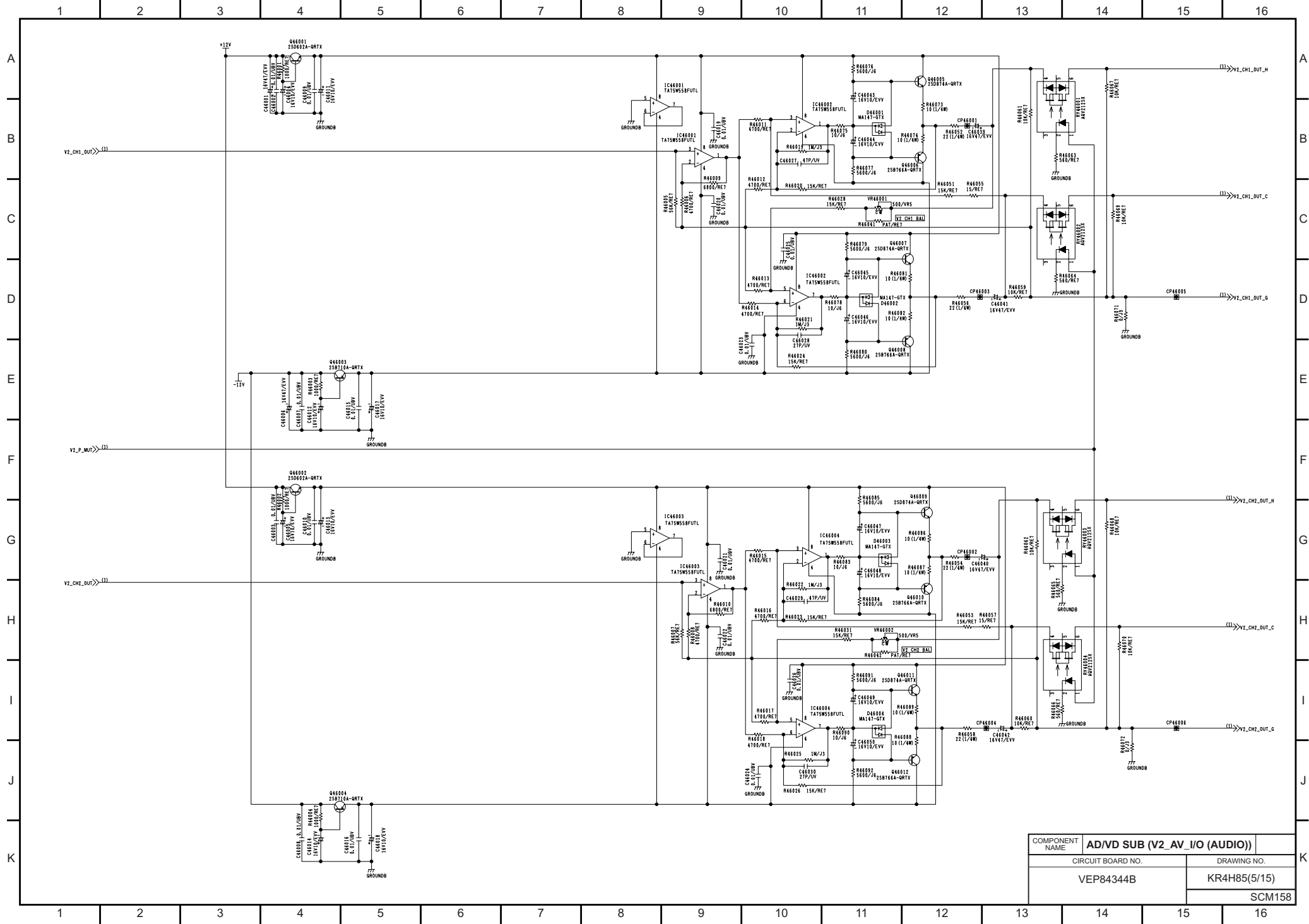


COMPONENT NAME	AD/VD SUB (MON_R_DA)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84344B		KR4H85(3/15)	
		SCM156	

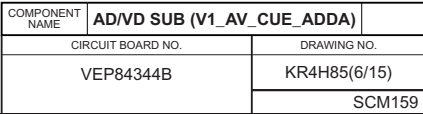












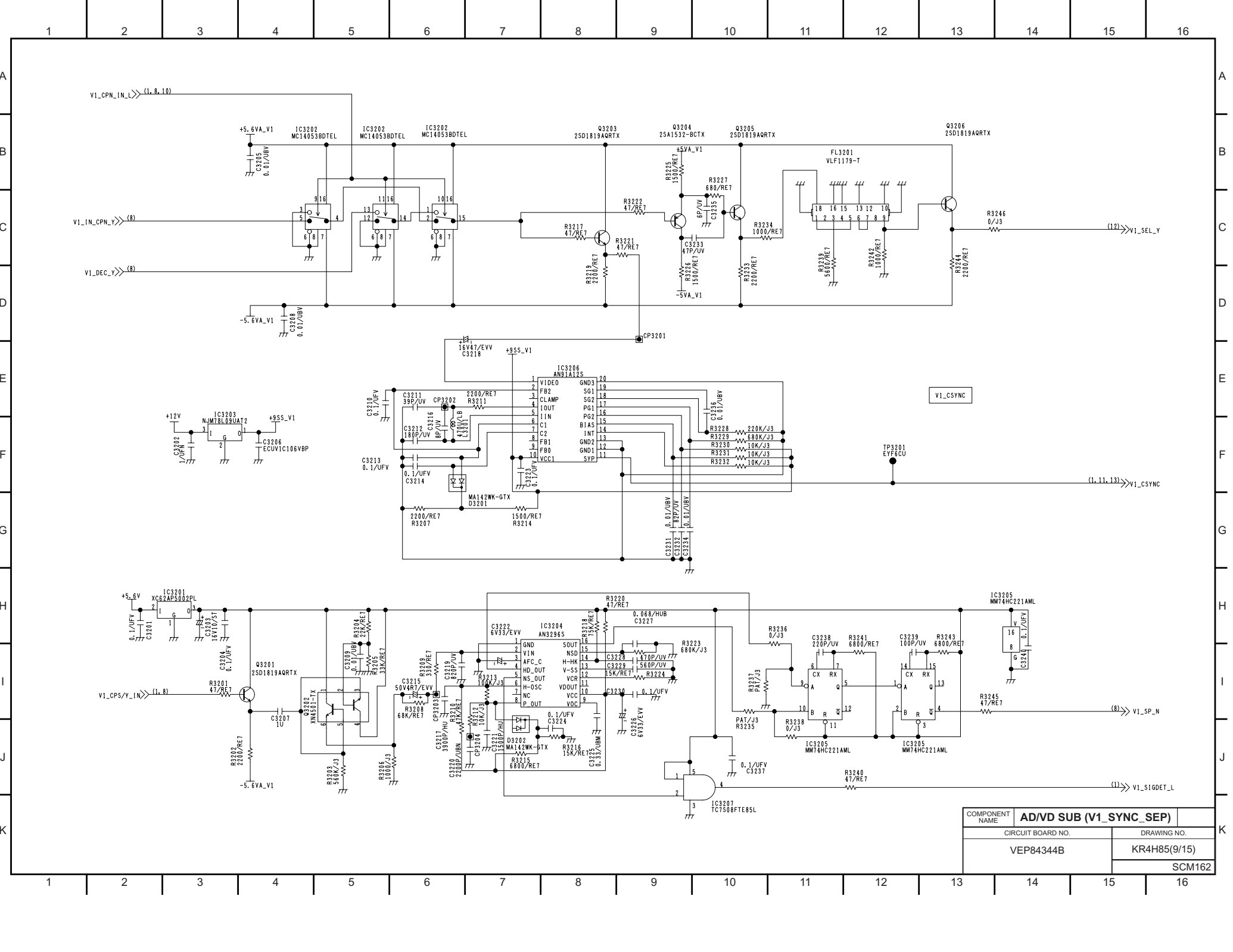






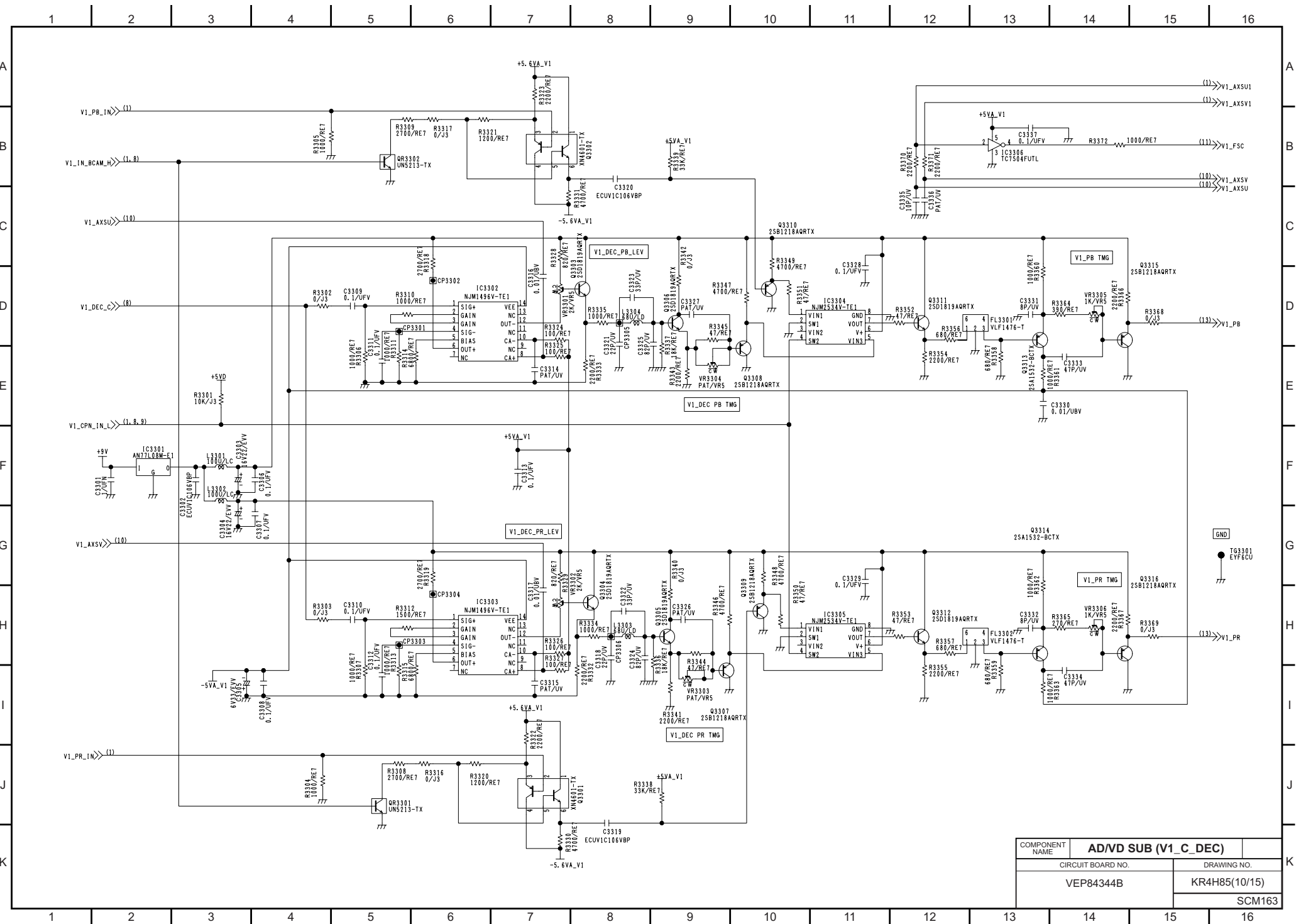




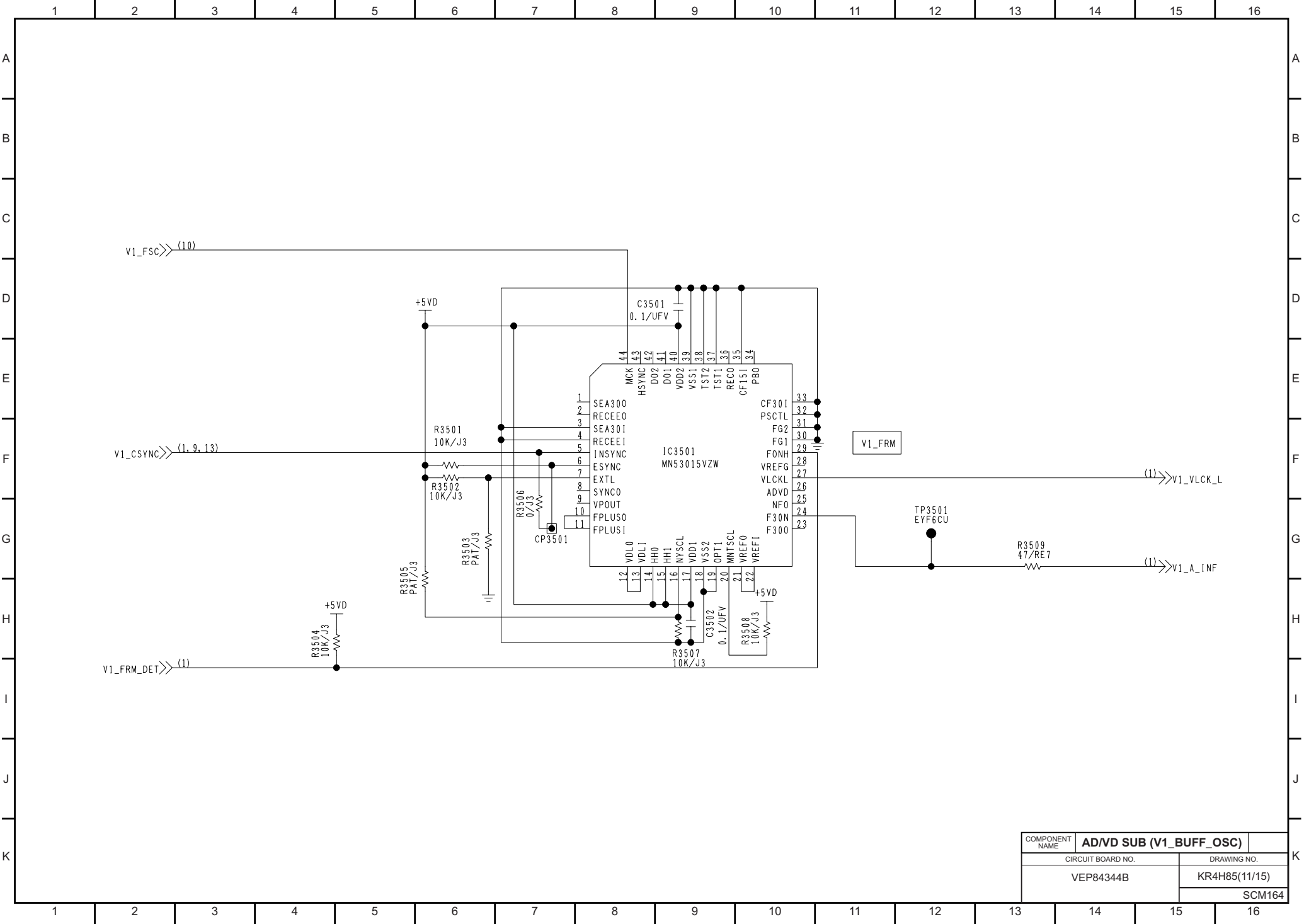


COMPONENT NAME	AD/VD SUB (V1_SYNC_SEP)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84344B		KR4H85(9/15)	
		SCM162	

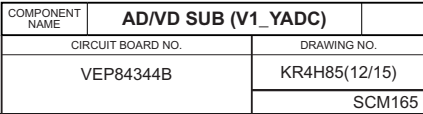




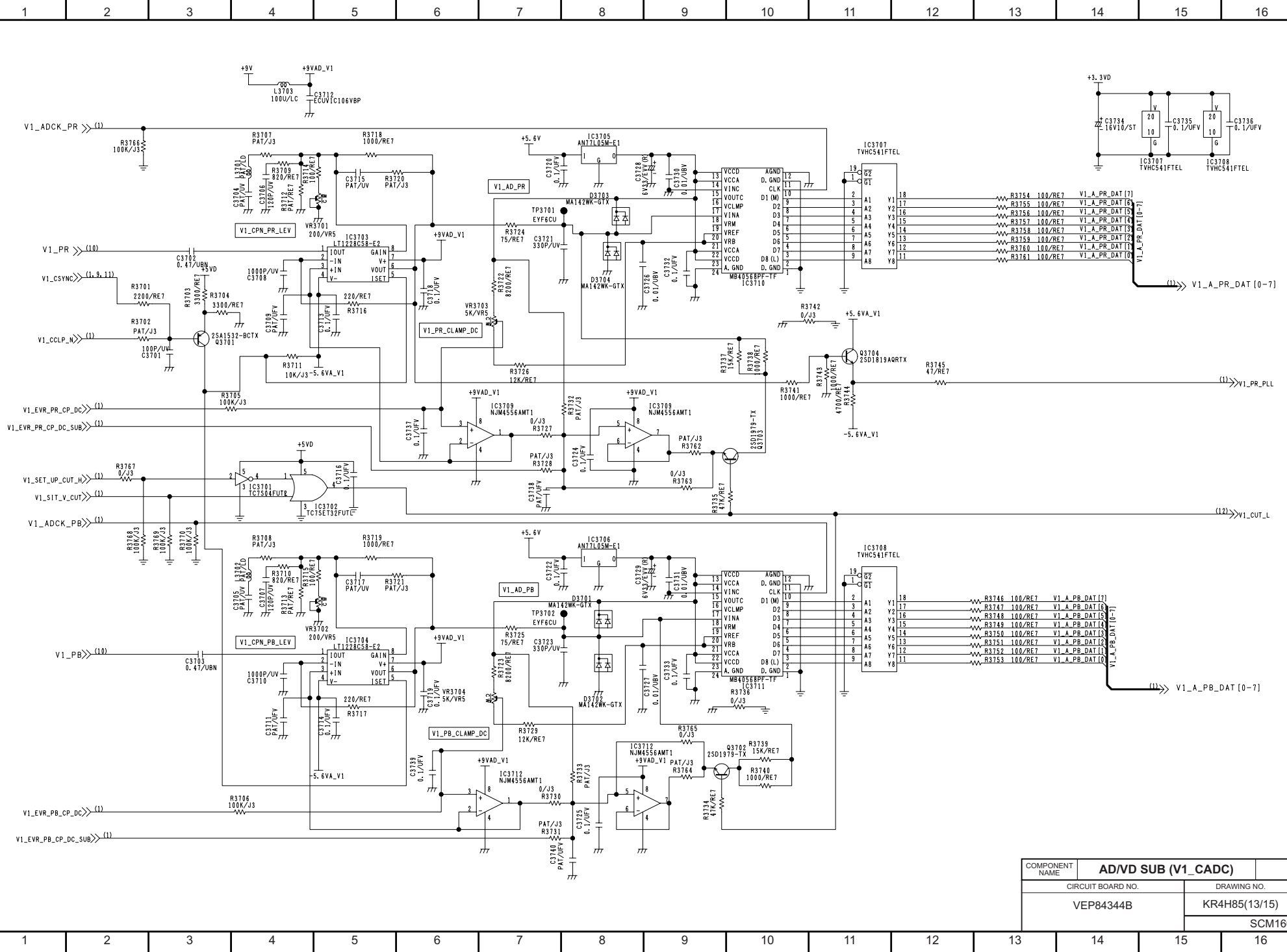










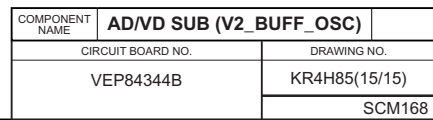


COMPONENT NAME	AD/VD SUB (V1_CADC)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84344B		KR4H85(13/15)	
		SCM166	

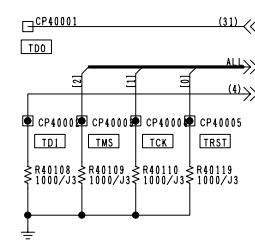
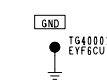
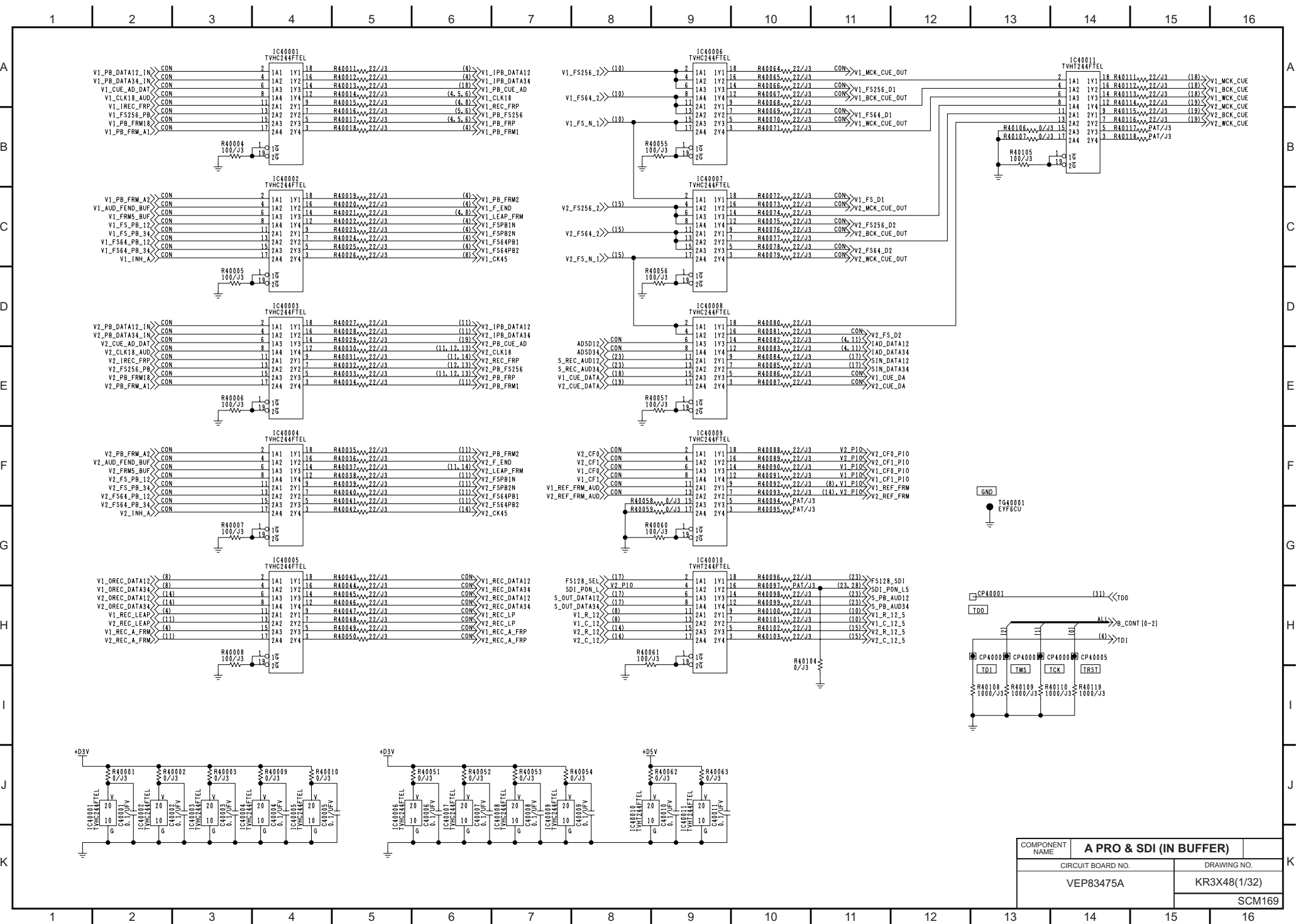






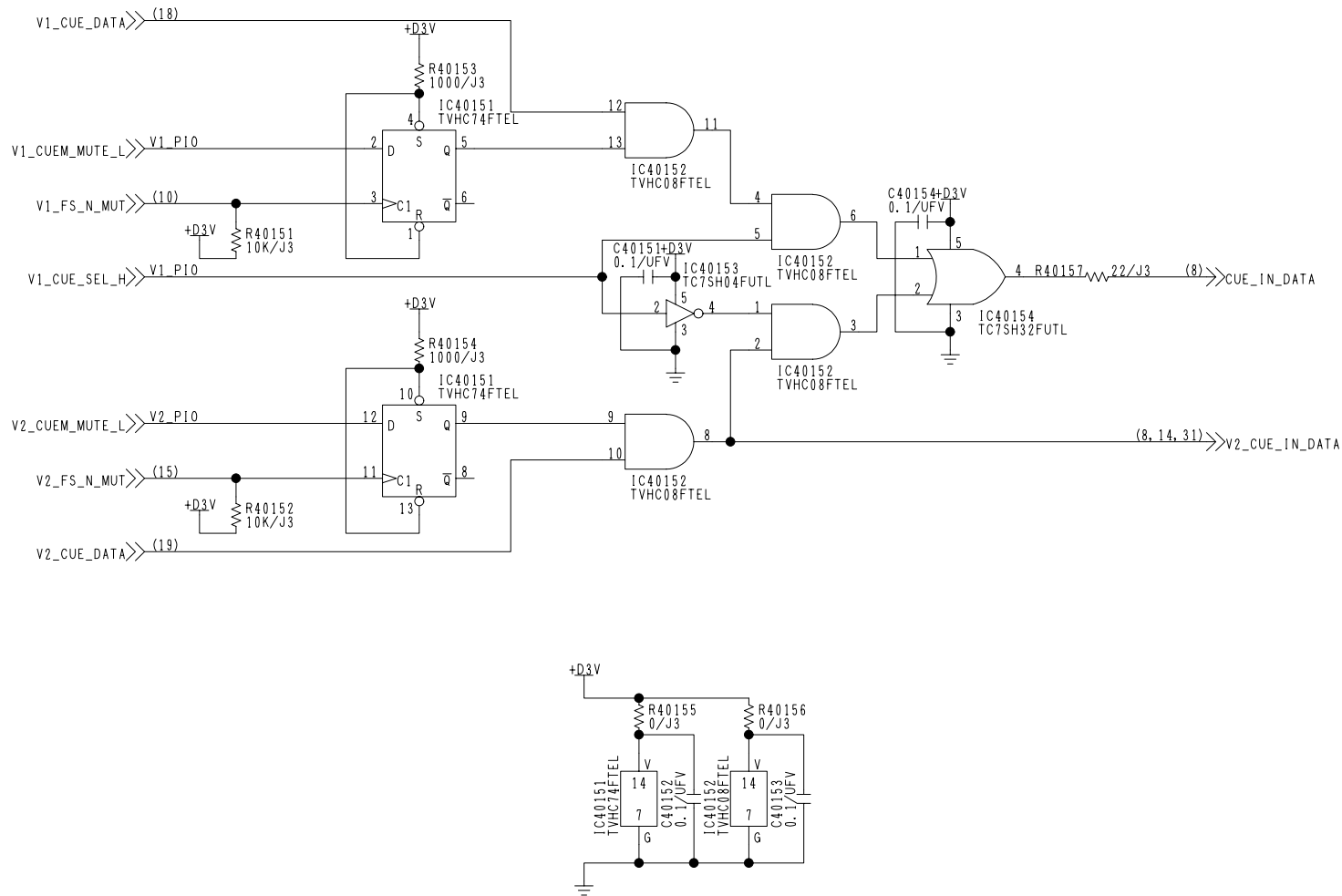






COMPONENT NAME		A PRO & SDI (IN BUFFER)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(1/32)	
		SCM169	



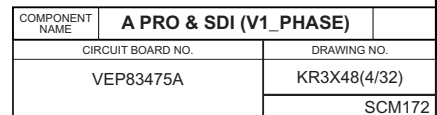


COMPONENT NAME	A PRO & SDI (CUE SEL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(2/32)
		SCM170



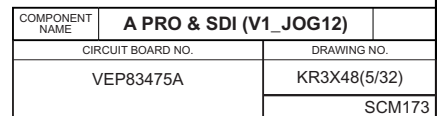




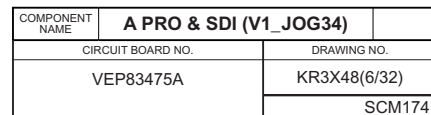


COMPONENT NAME	A PRO & SDI (V1_PHASE)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(4/32)	
		SCM172	



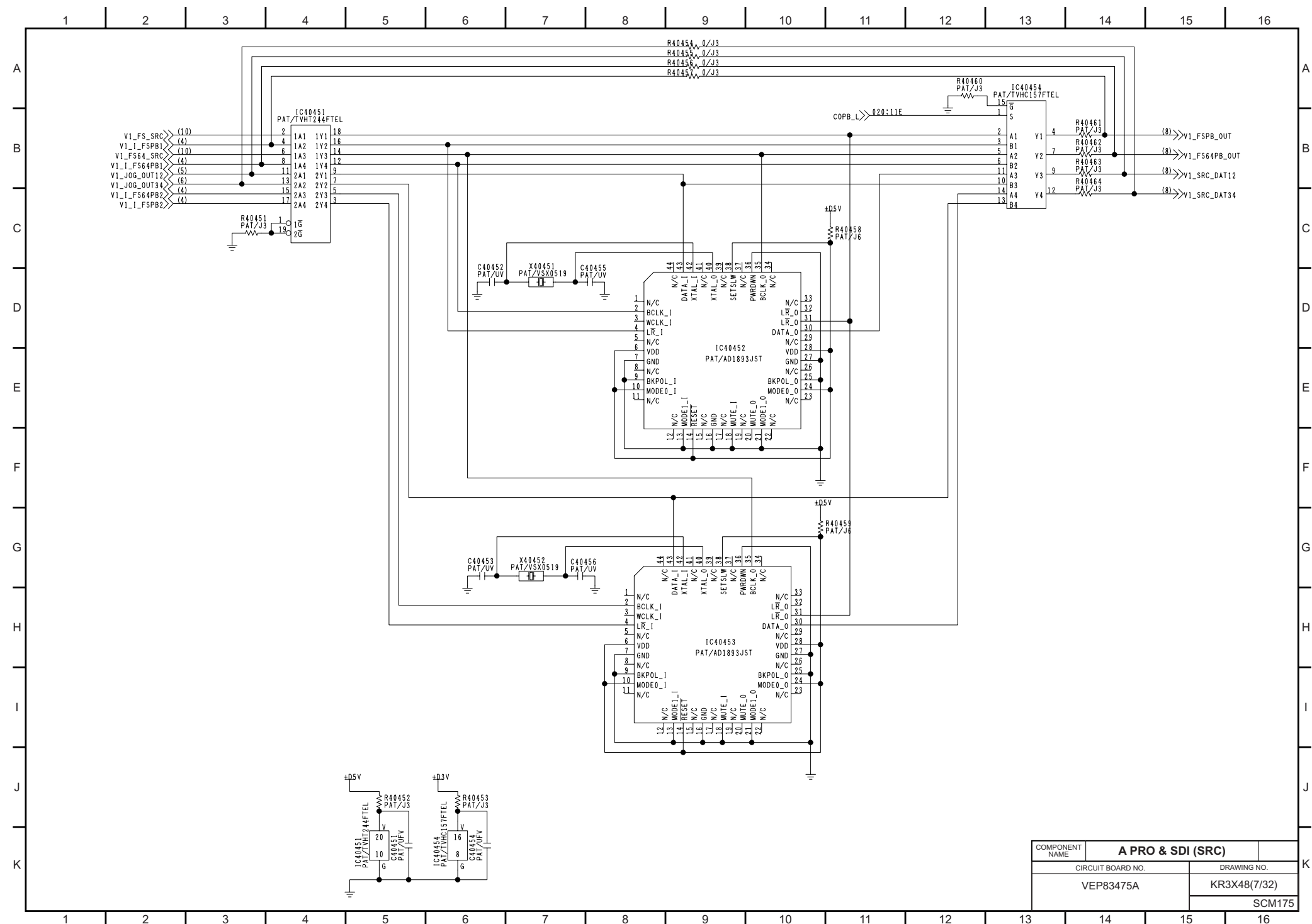




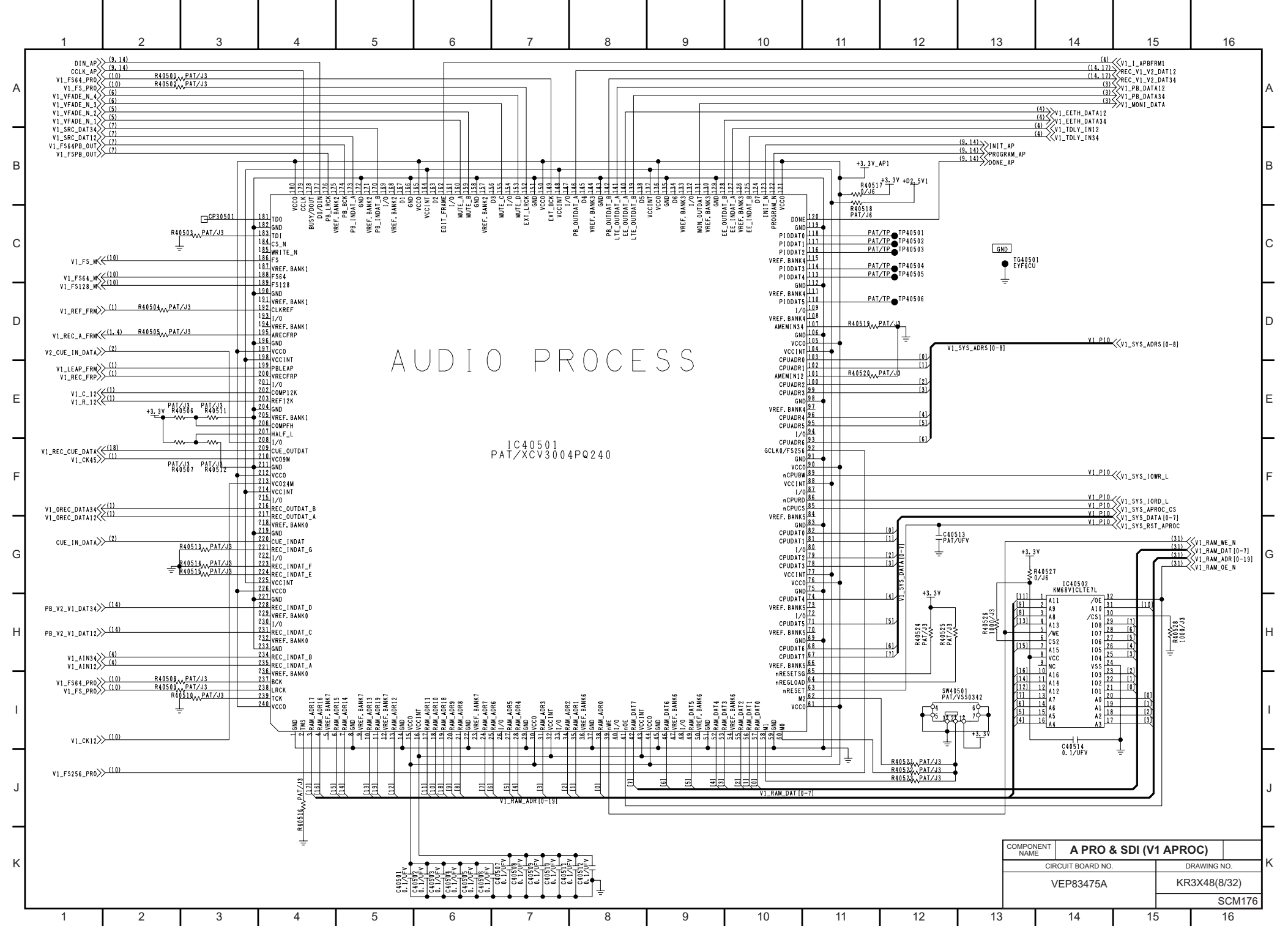


COMPONENT NAME	A PRO & SDI (V1_JOG34)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(6/32)	
		SCM174	

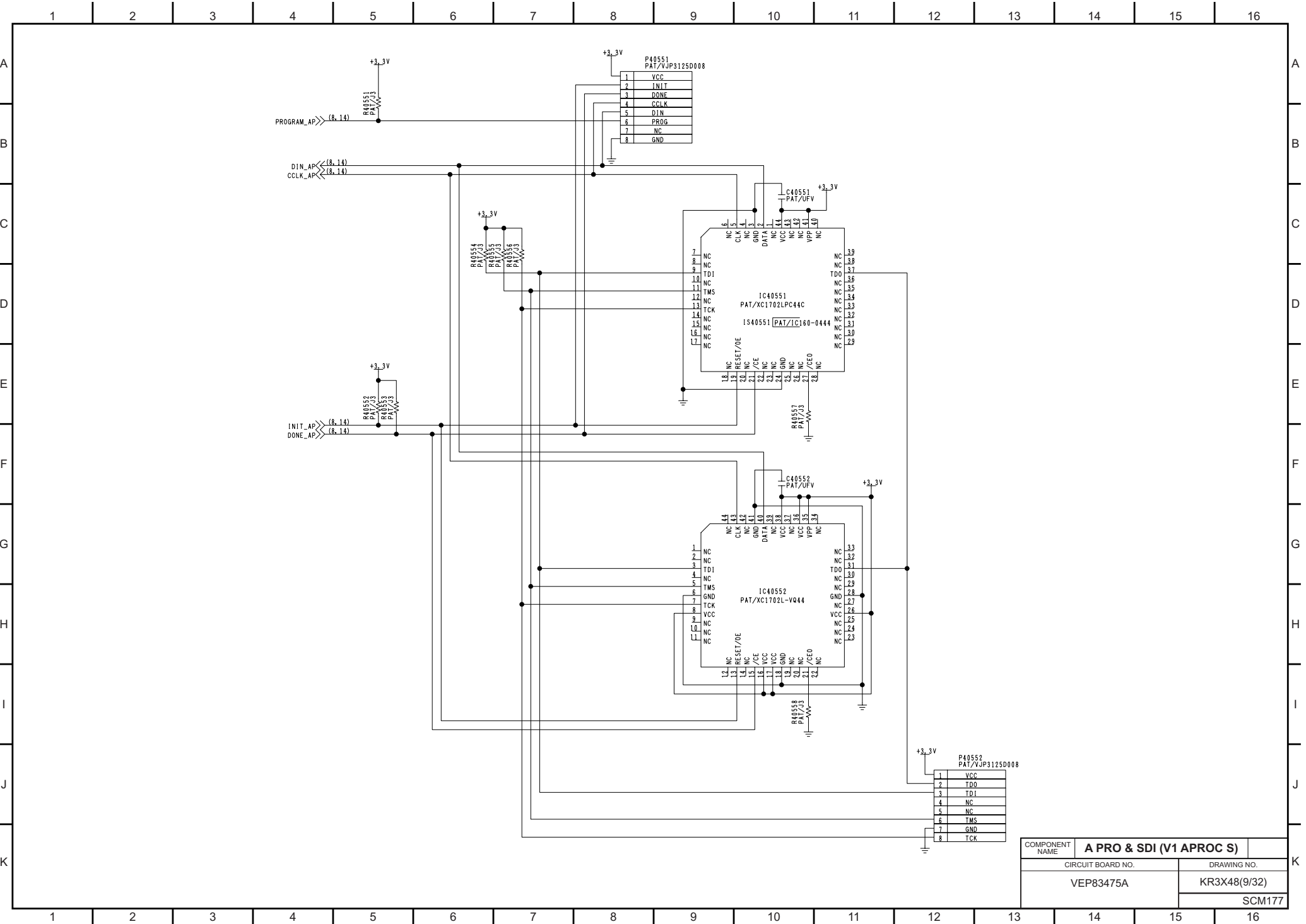






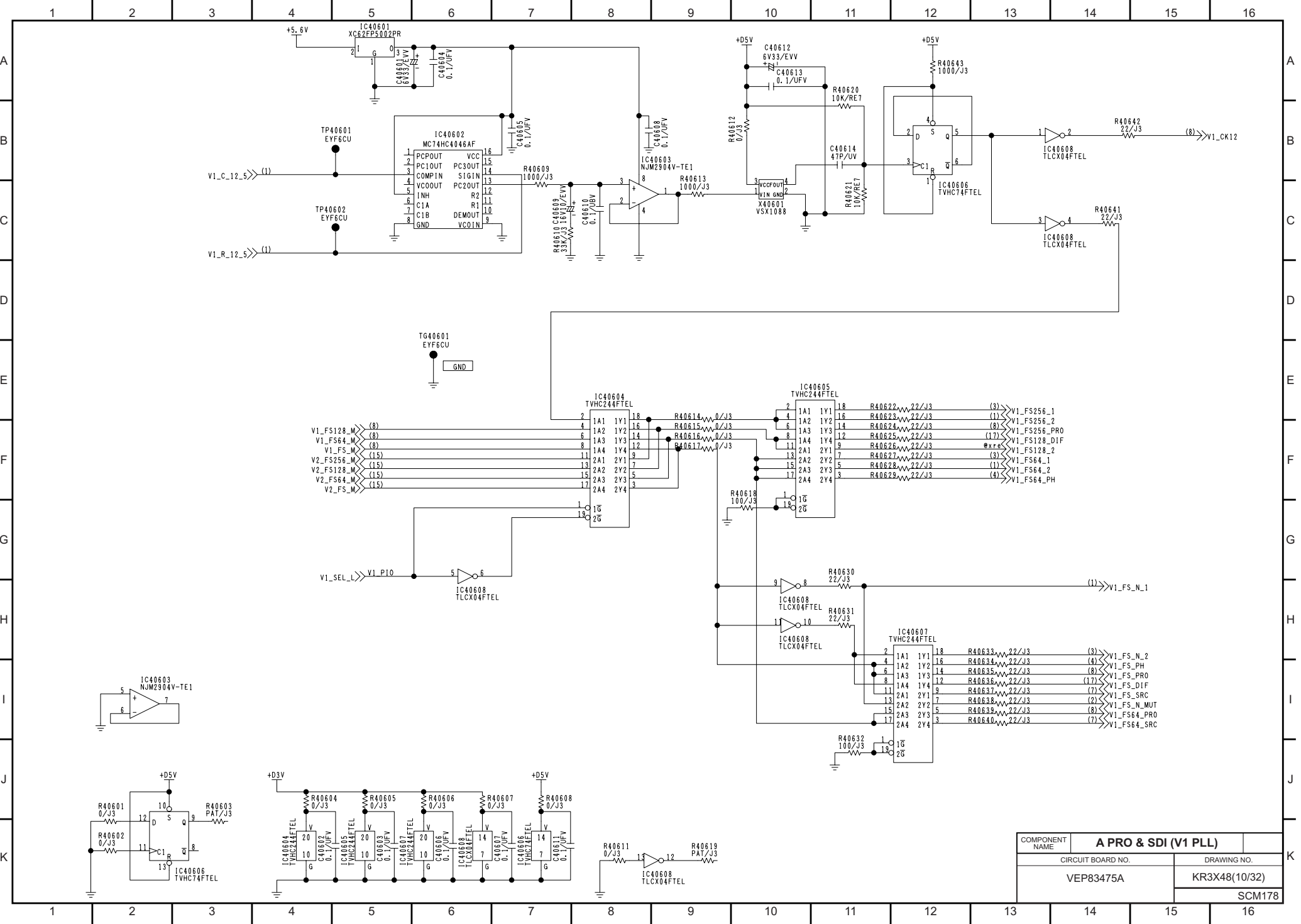






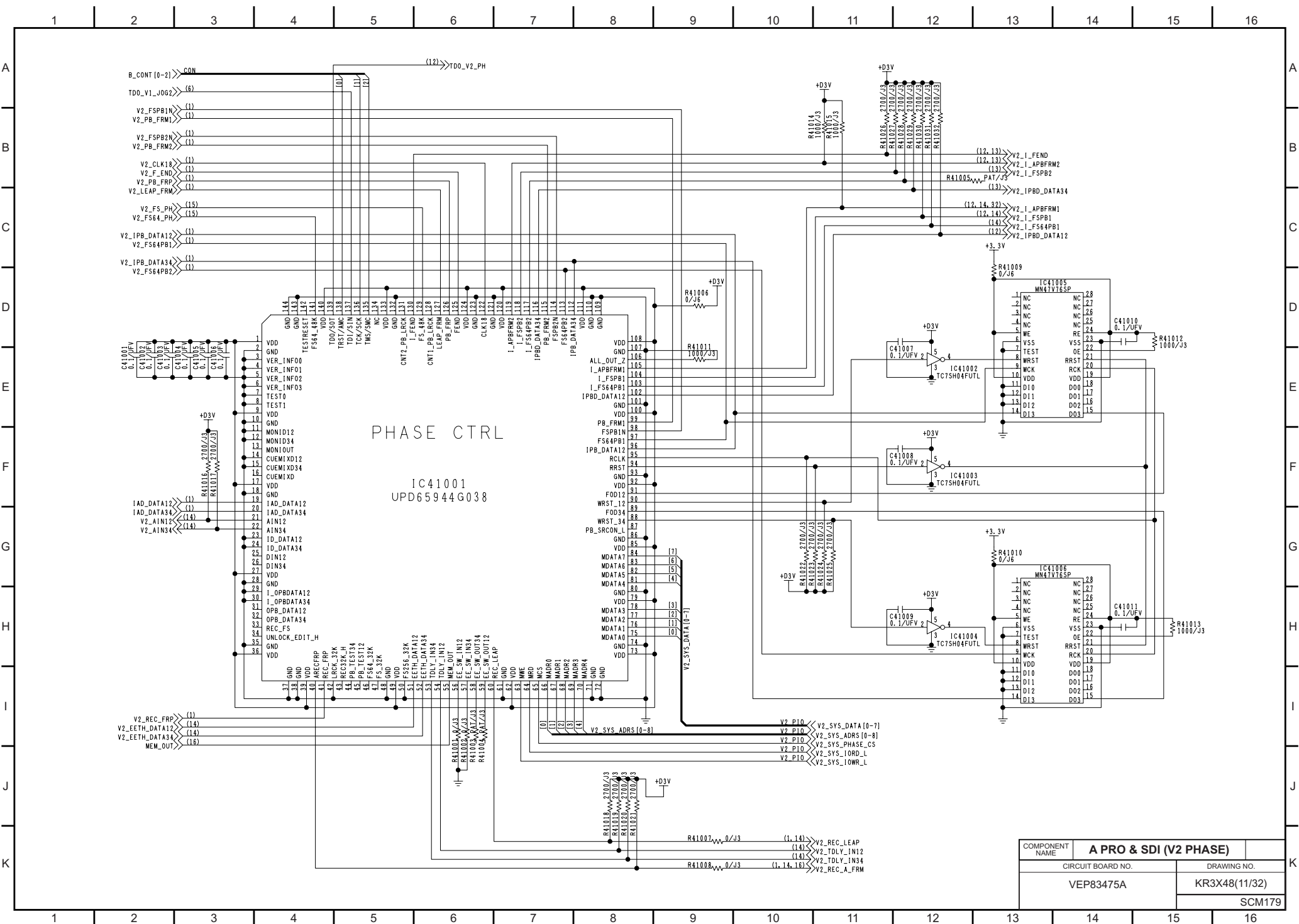
COMPONENT NAME	A PRO & SDI (V1 APROC S)	
	CIRCUIT BOARD NO.	DRAWING NO.
VEP83475A		KR3X48(9/32)
SCM177		



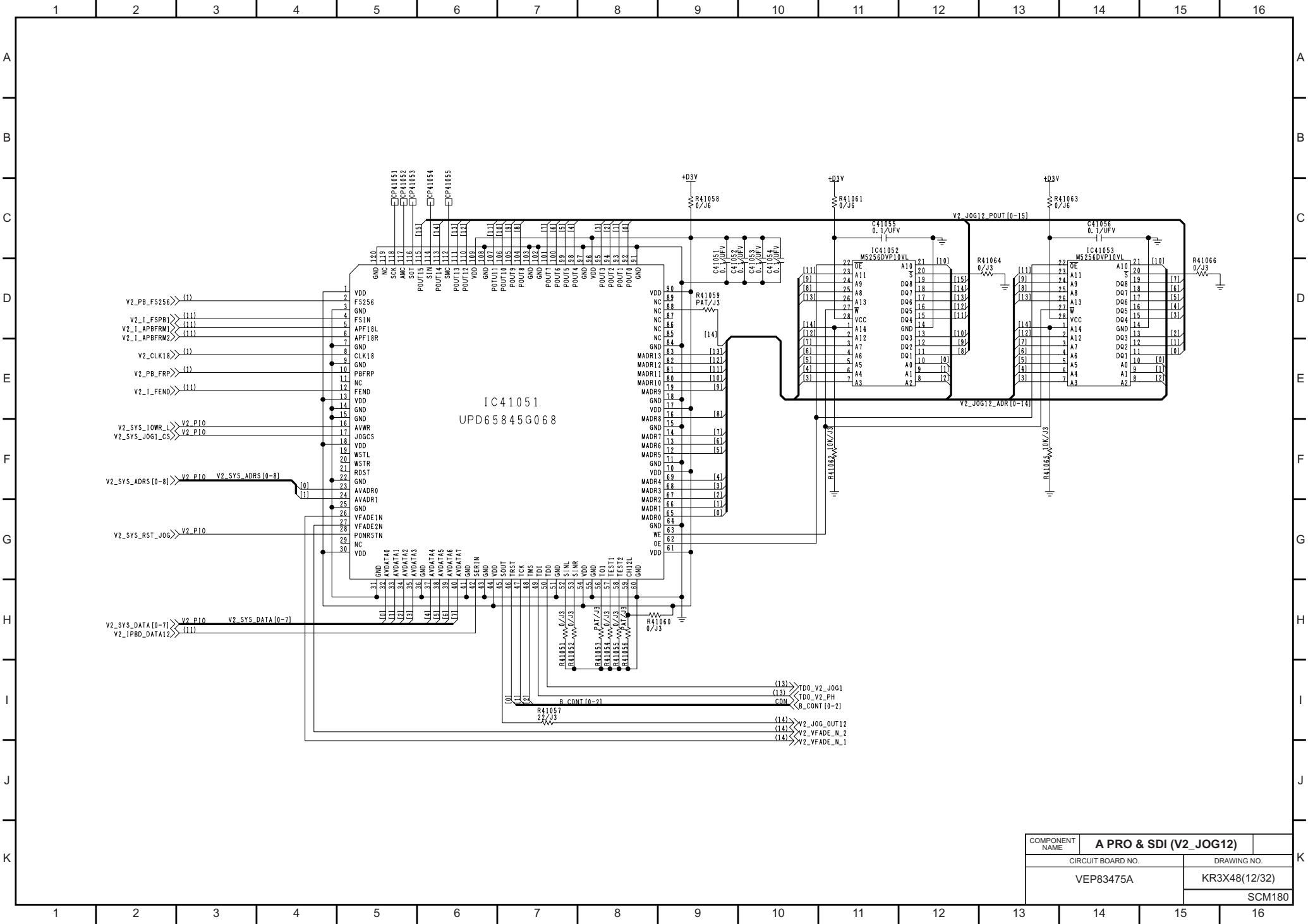


COMPONENT NAME	A PRO & SDI (V1 PLL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(10/32)
SCM178		

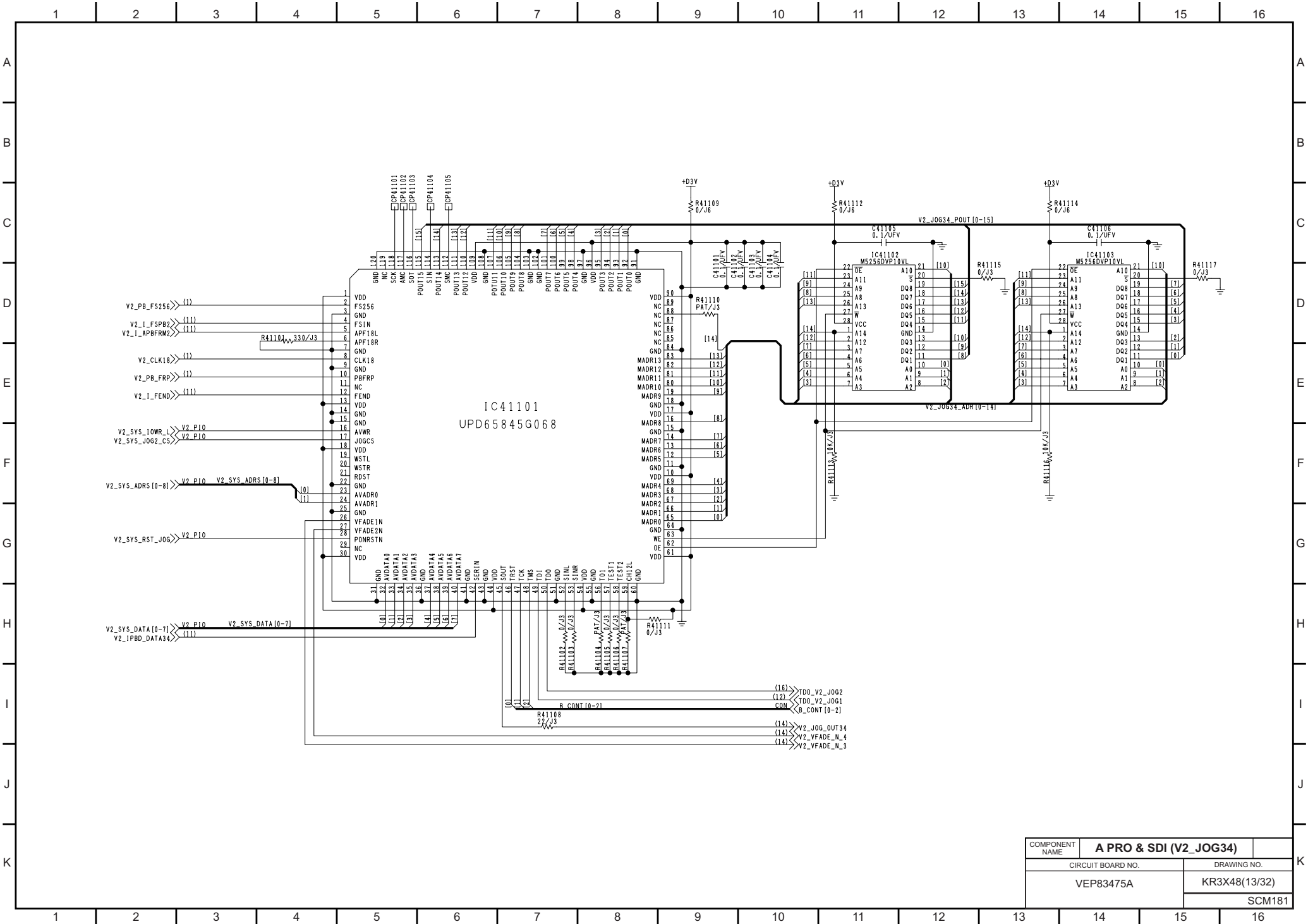






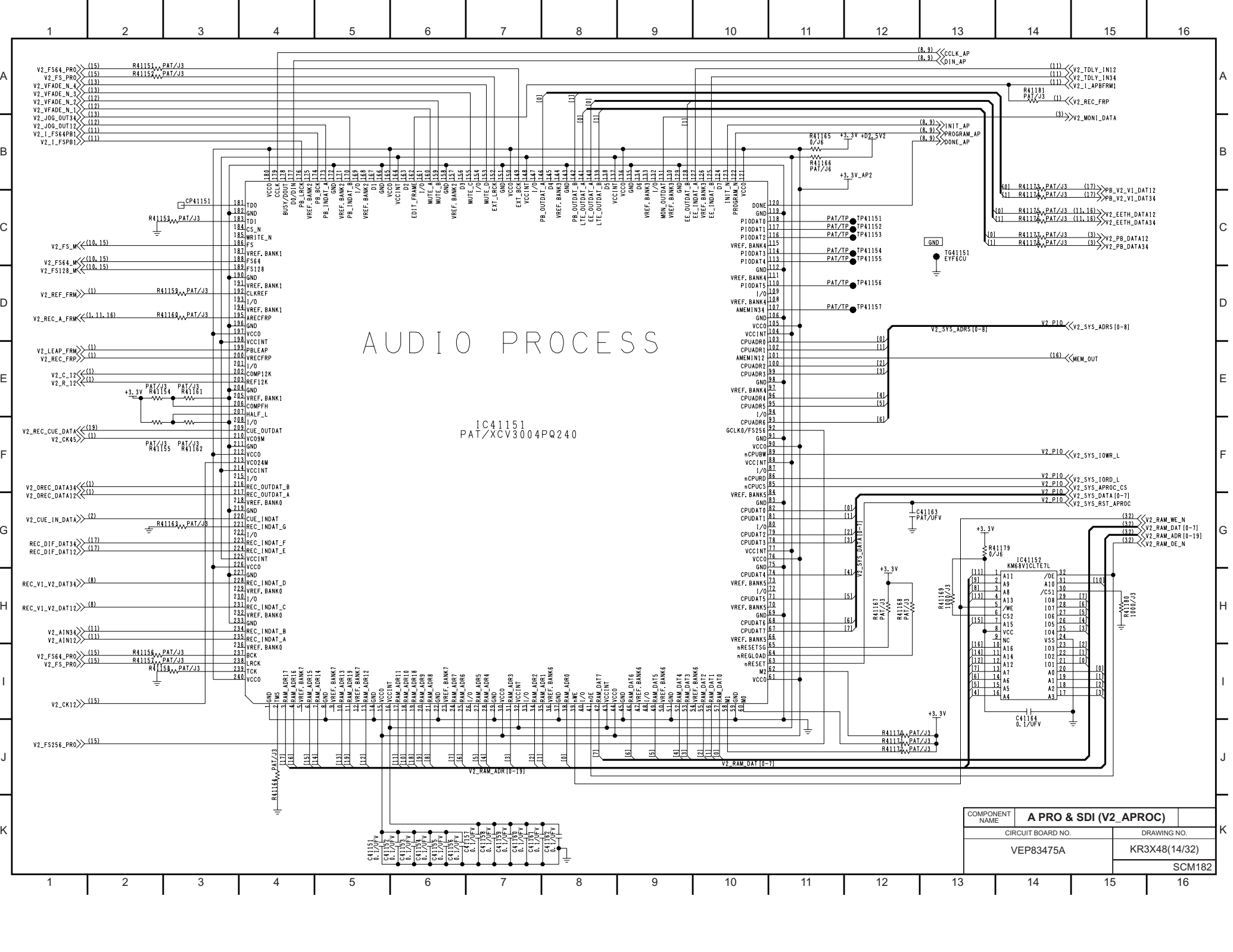






COMPONENT NAME		A PRO & SDI (V2_JOG34)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(13/32)	
		SCM181	



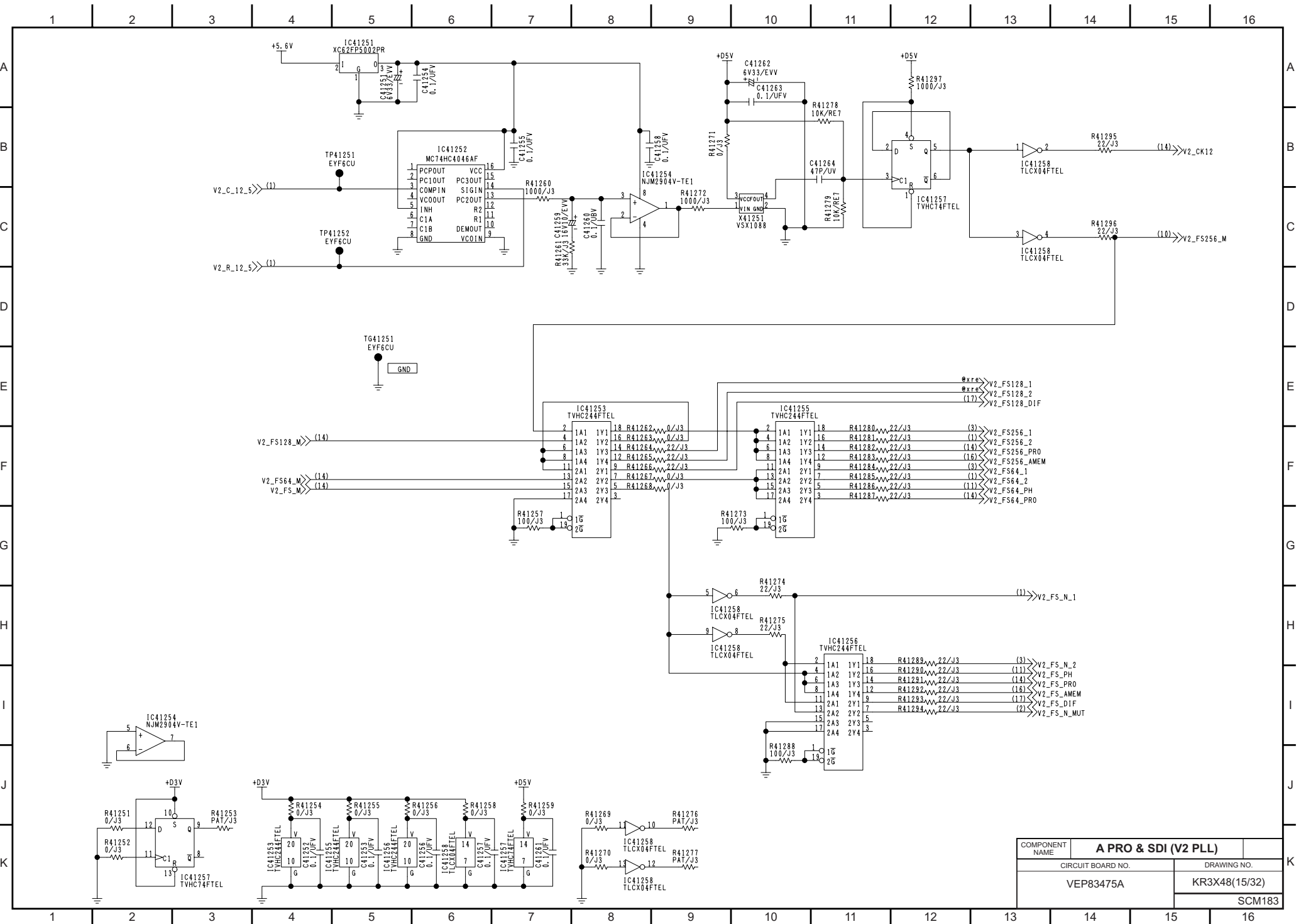


AUDIO PROCESS

IC41151  
PAT/XCV3004PQ240

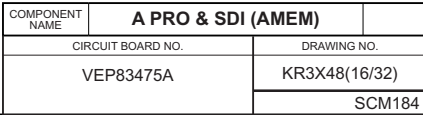
COMPONENT NAME		A PRO & SDI (V2_APROC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(14/32)	
		SCM182	



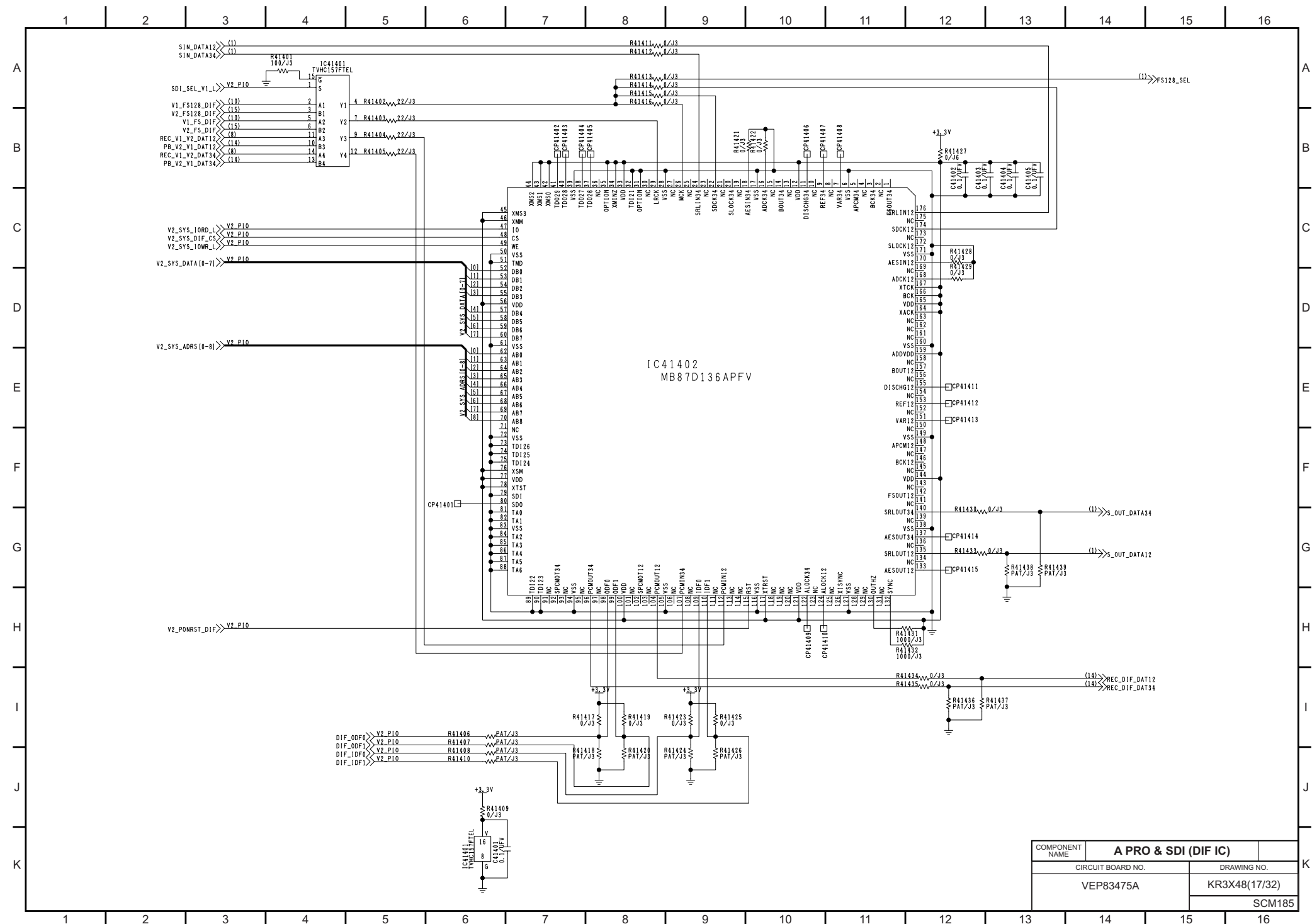


COMPONENT NAME		A PRO & SDI (V2 PLL)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(15/32)	
		SCM183	

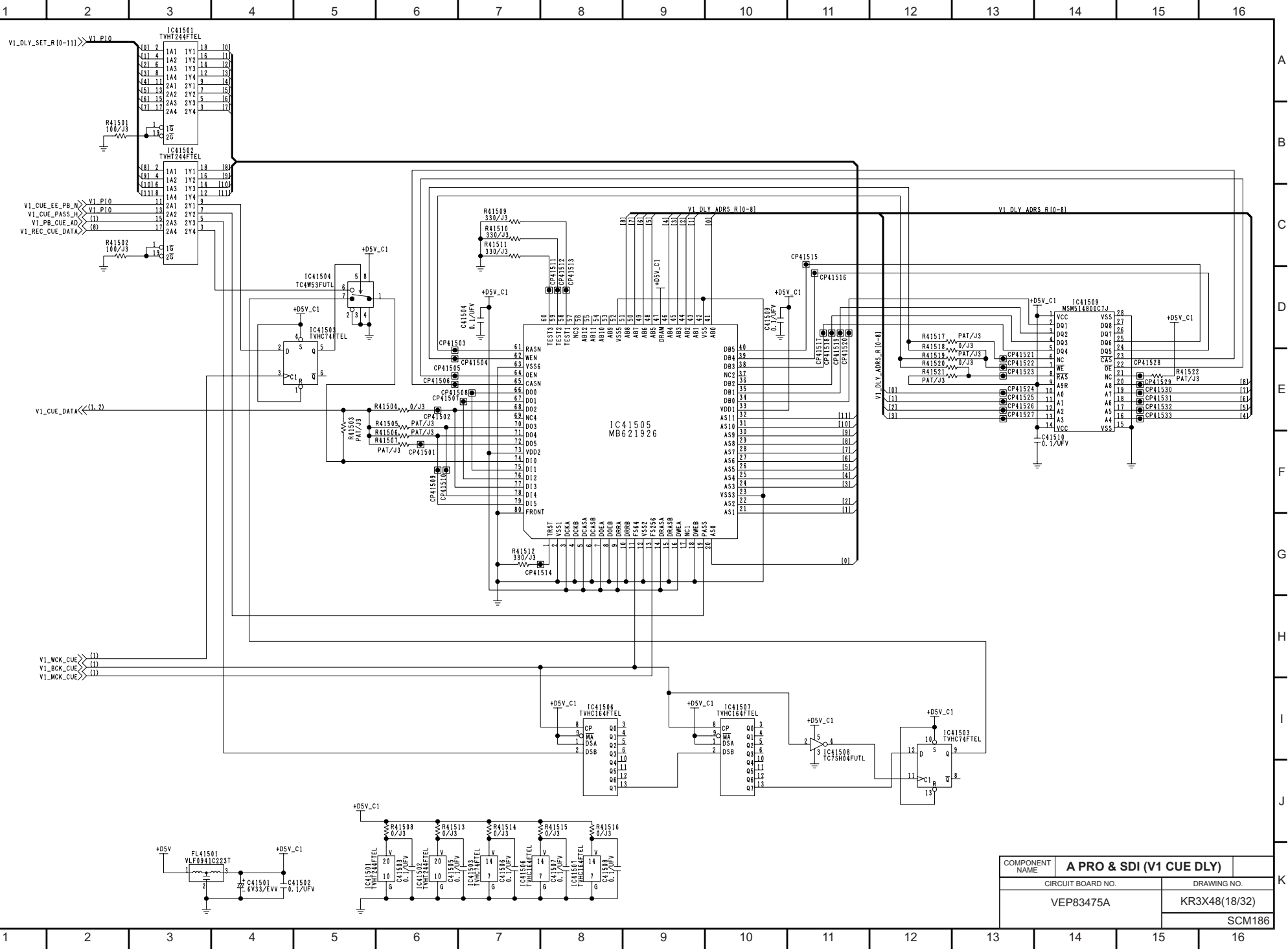






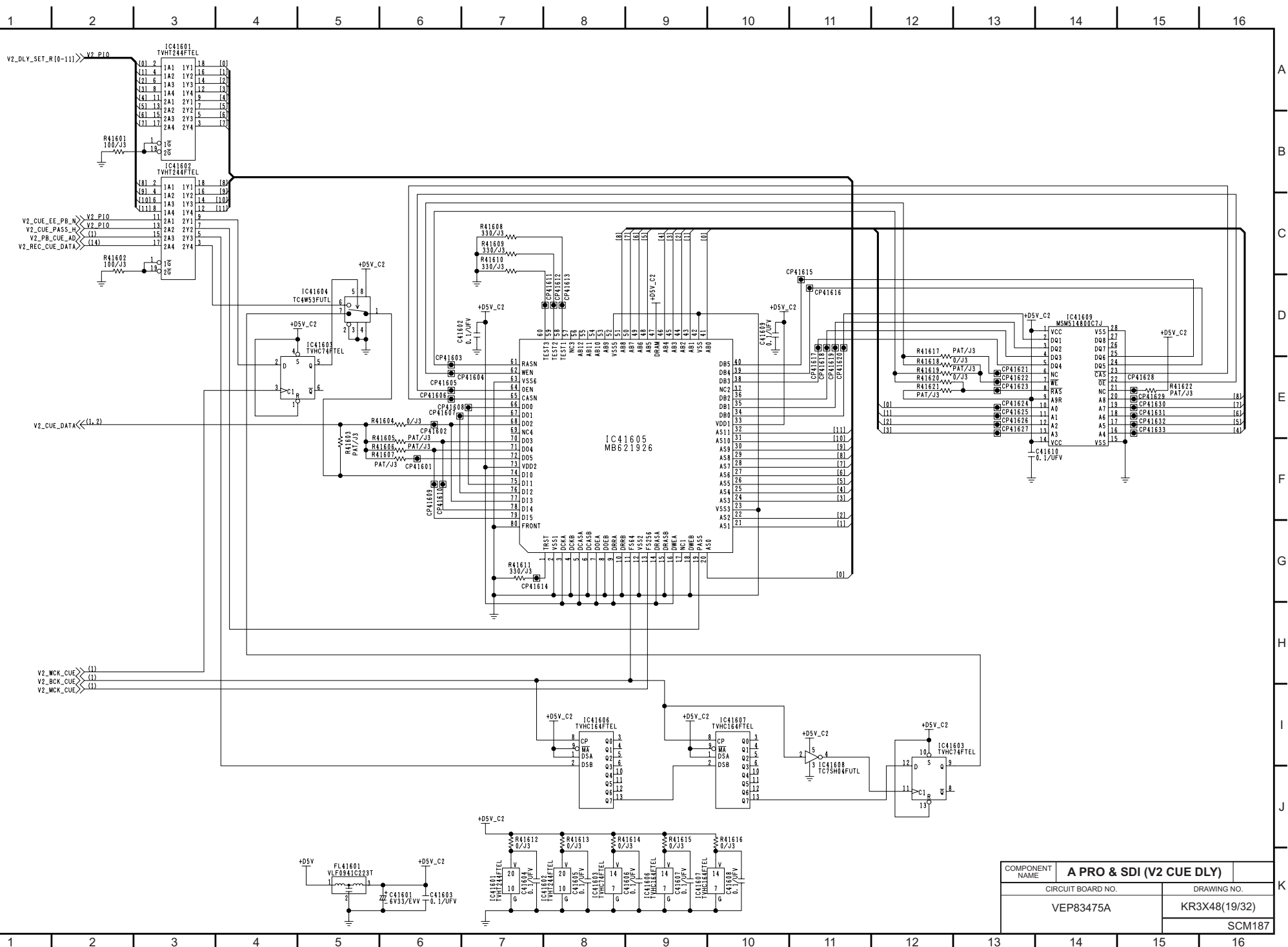






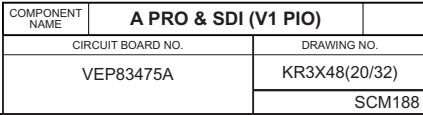
COMPONENT NAME	A PRO & SDI (V1 CUE DLY)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(18/32)	
		SCM186	



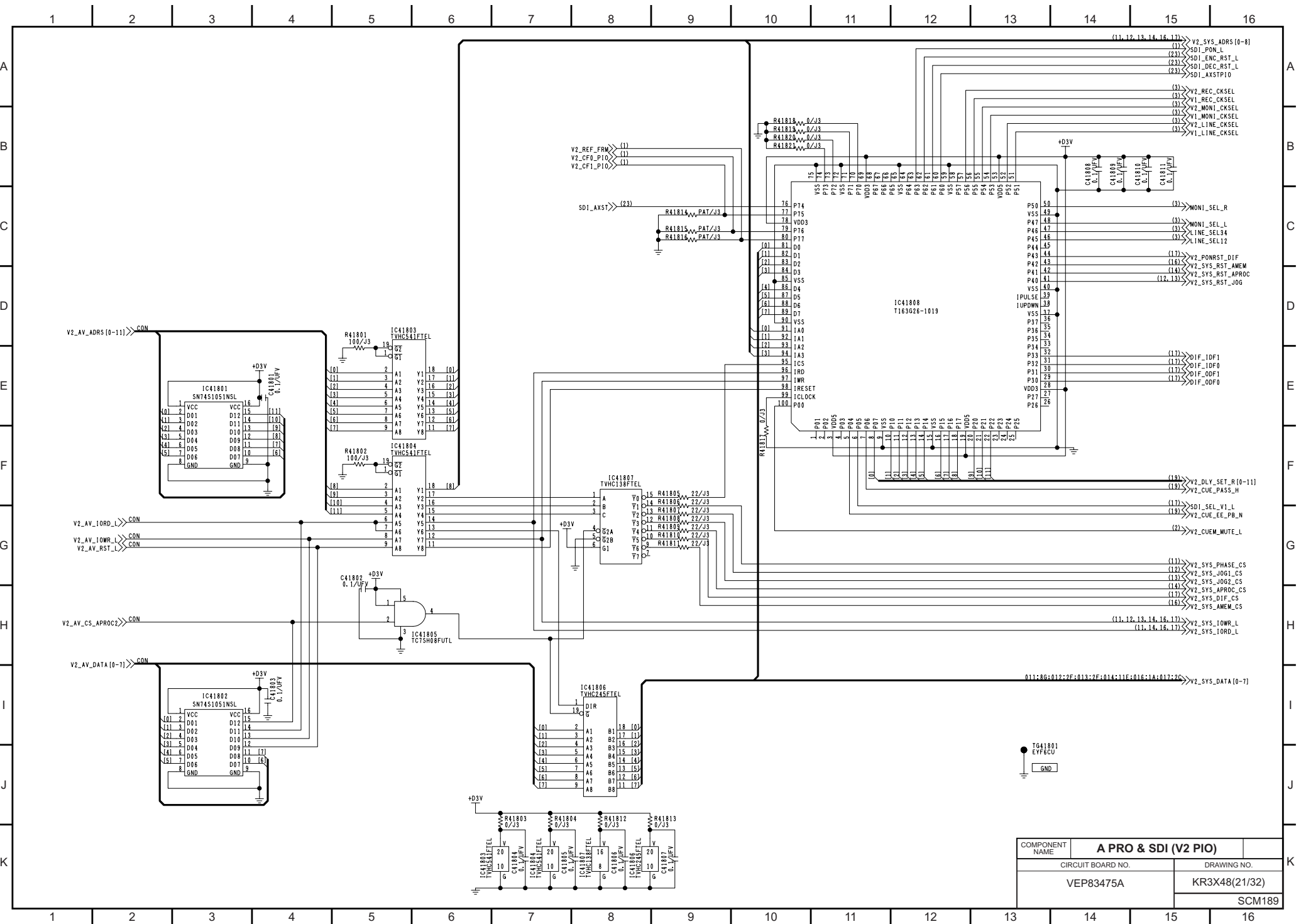


COMPONENT NAME	A PRO & SDI (V2 CUE DLY)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(19/32)
		SCM187



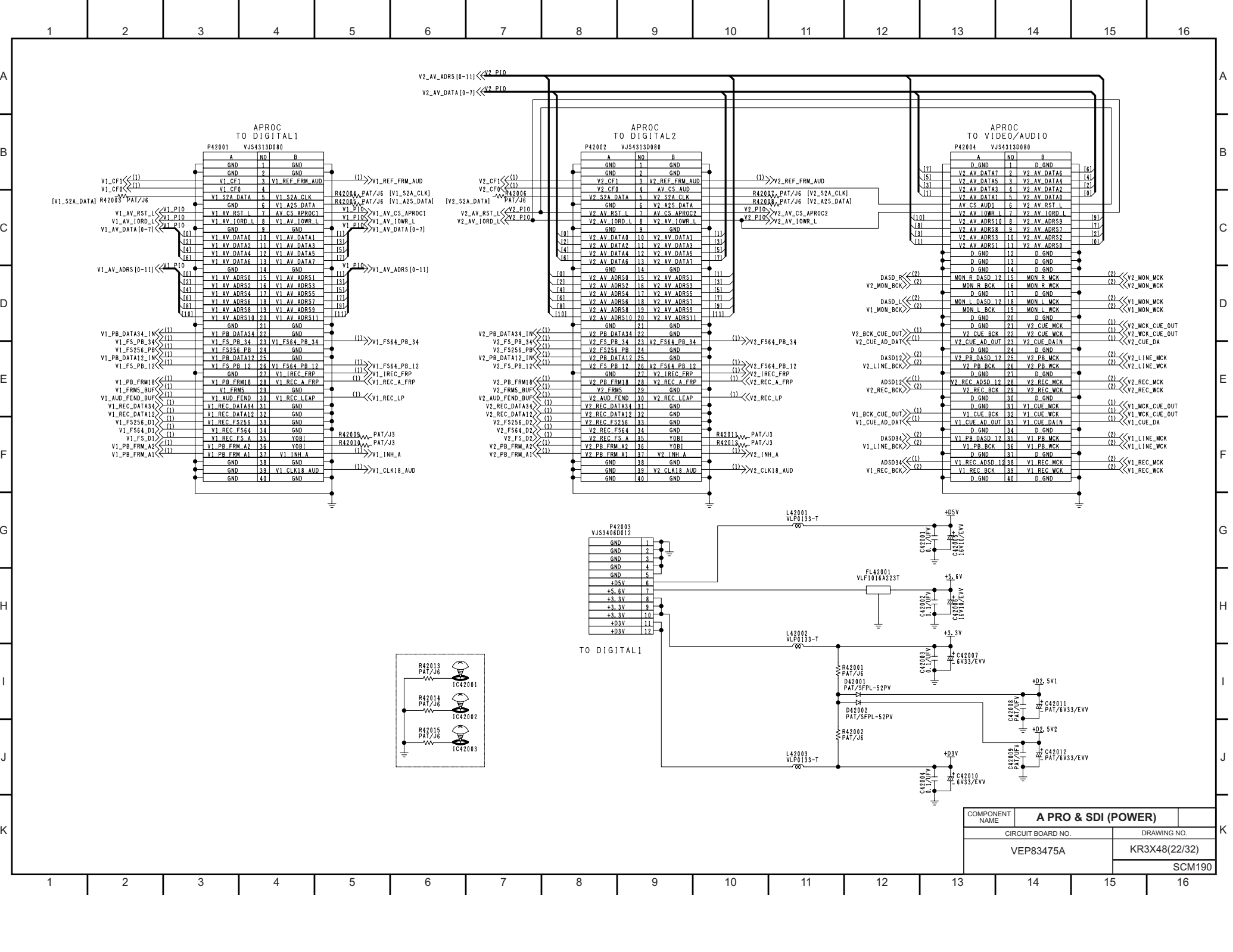






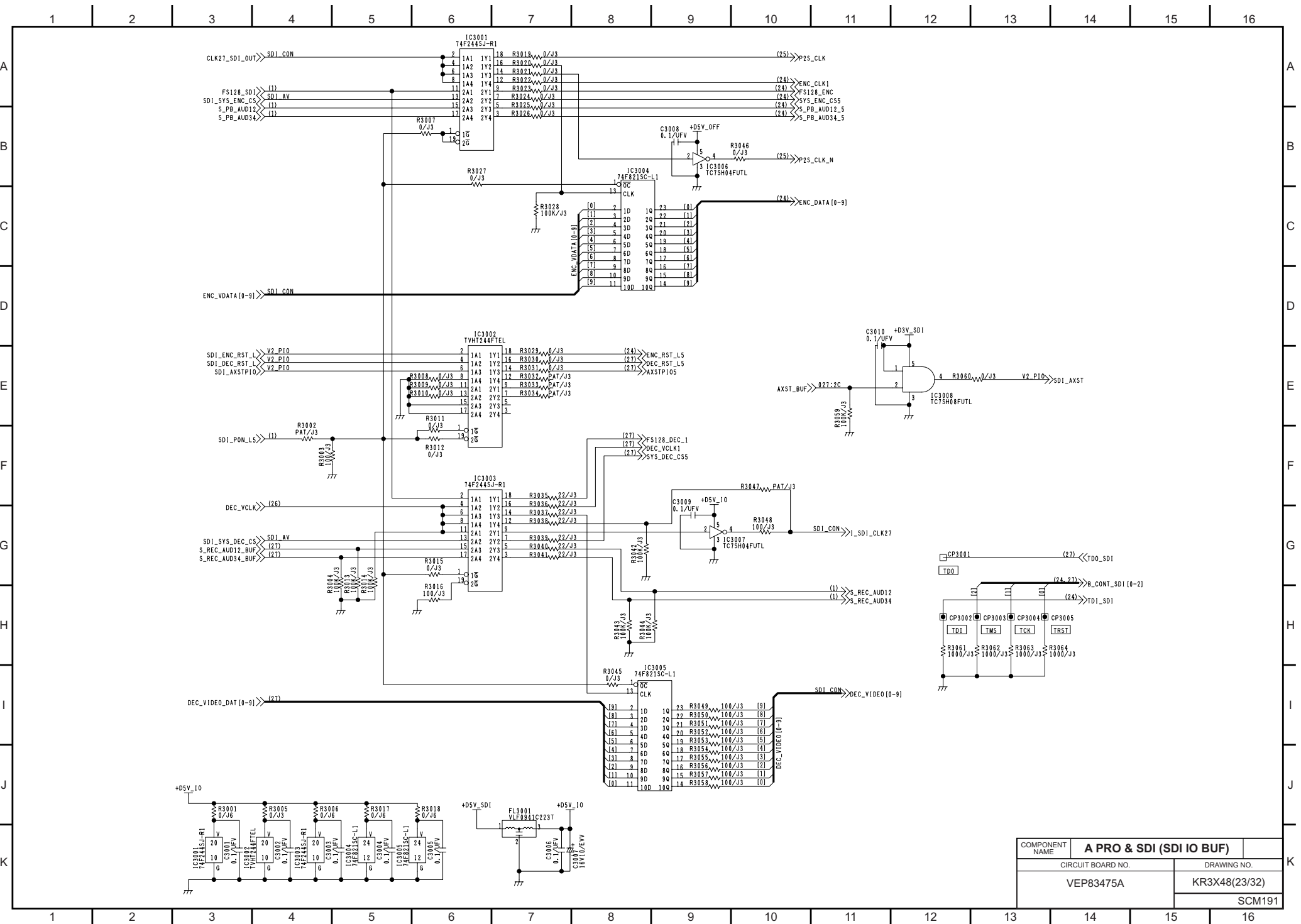
COMPONENT NAME	A PRO & SDI (V2 PIO)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(21/32)
SCM189		





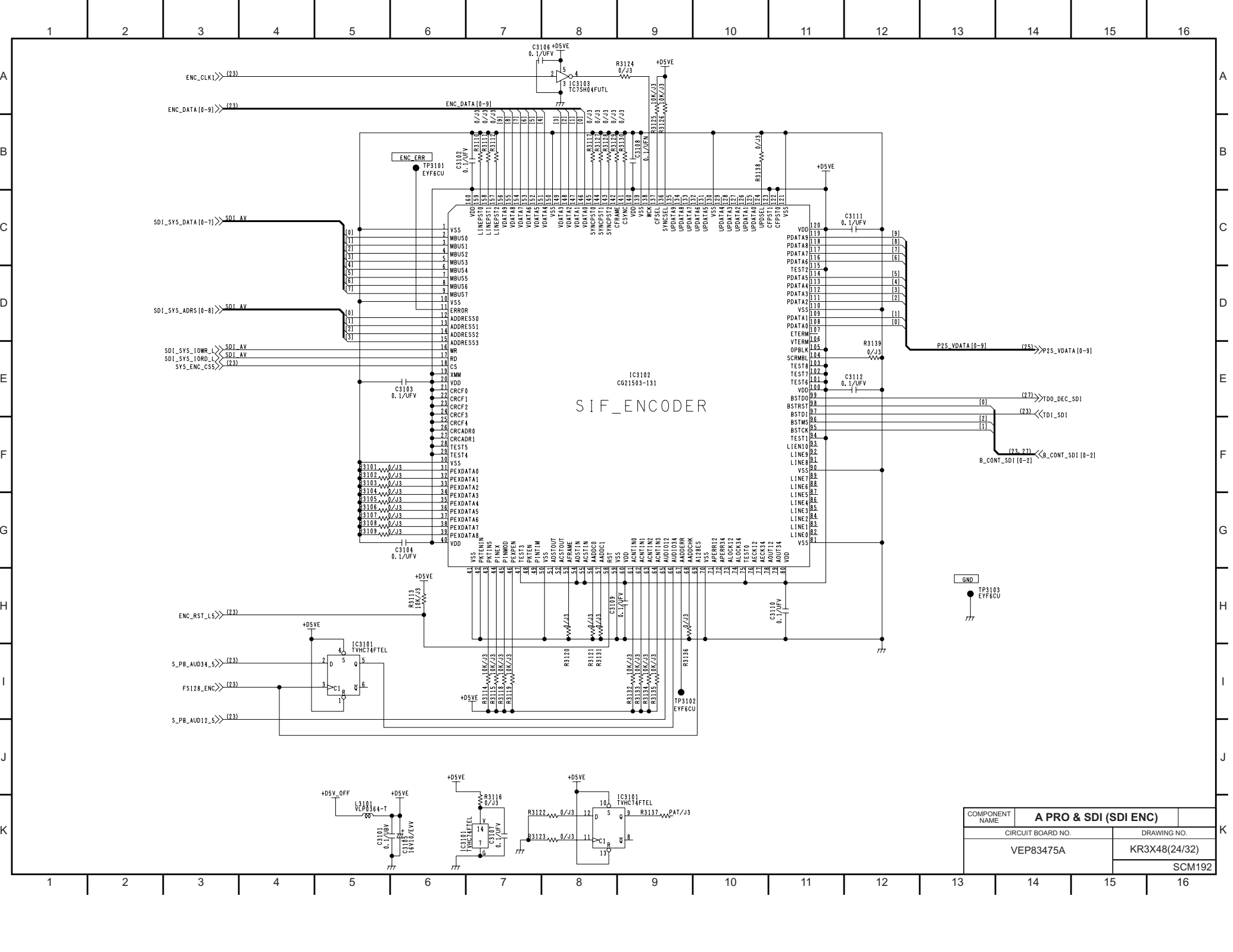
COMPONENT NAME		A PRO & SDI (POWER)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(22/32)	
		SCM190	





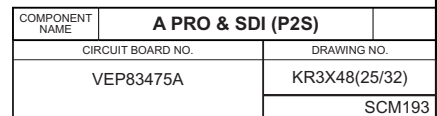
COMPONENT NAME	A PRO & SDI (SDI IO BUF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP3475A		KR3X48(23/32)
SCM191		





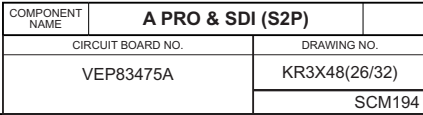
COMPONENT NAME	A PRO & SDI (SDI ENC)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(24/32)
SCM192		





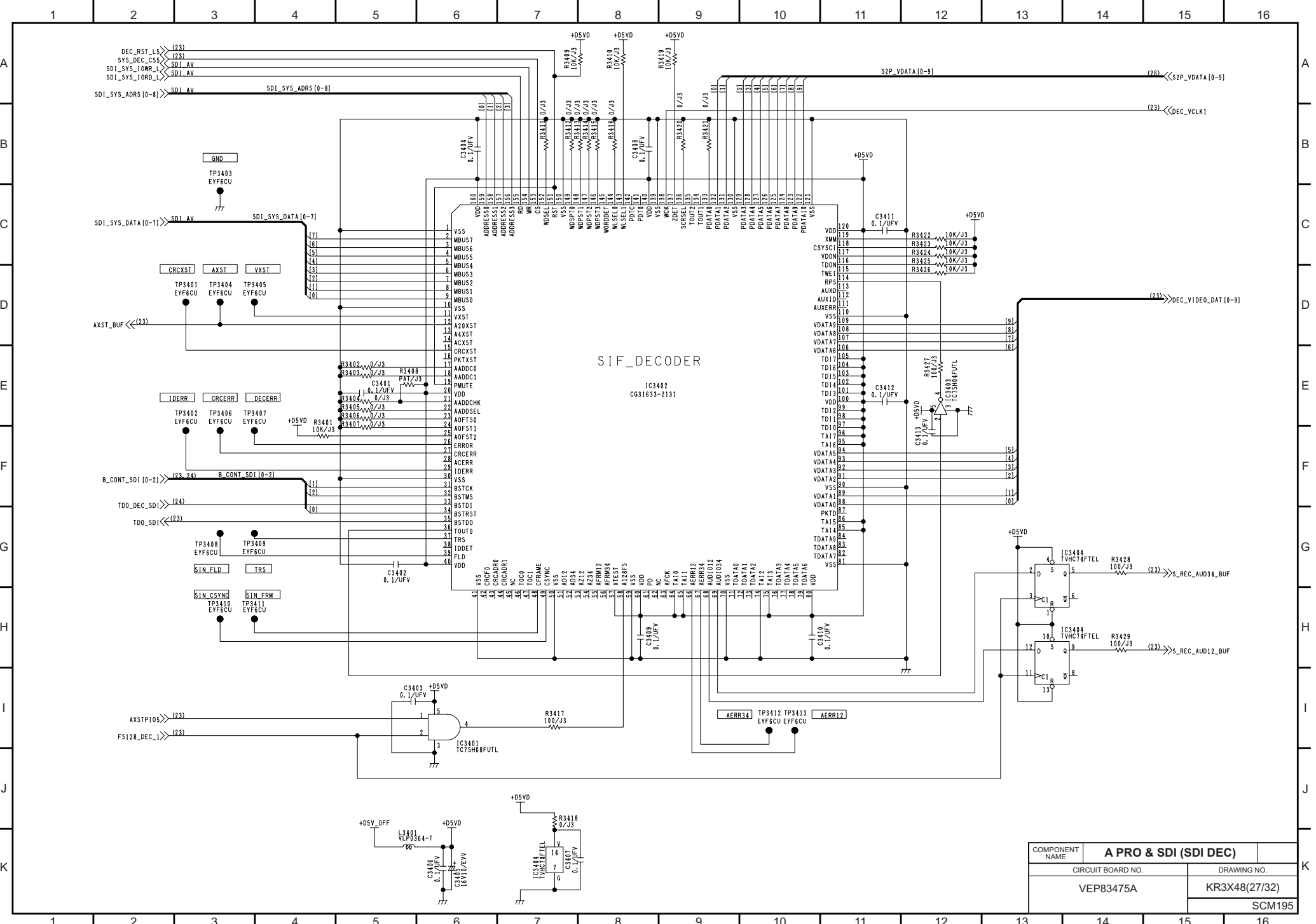
COMPONENT NAME	A PRO & SDI (P2S)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83475A	KR3X48(25/32)	
	SCM193	





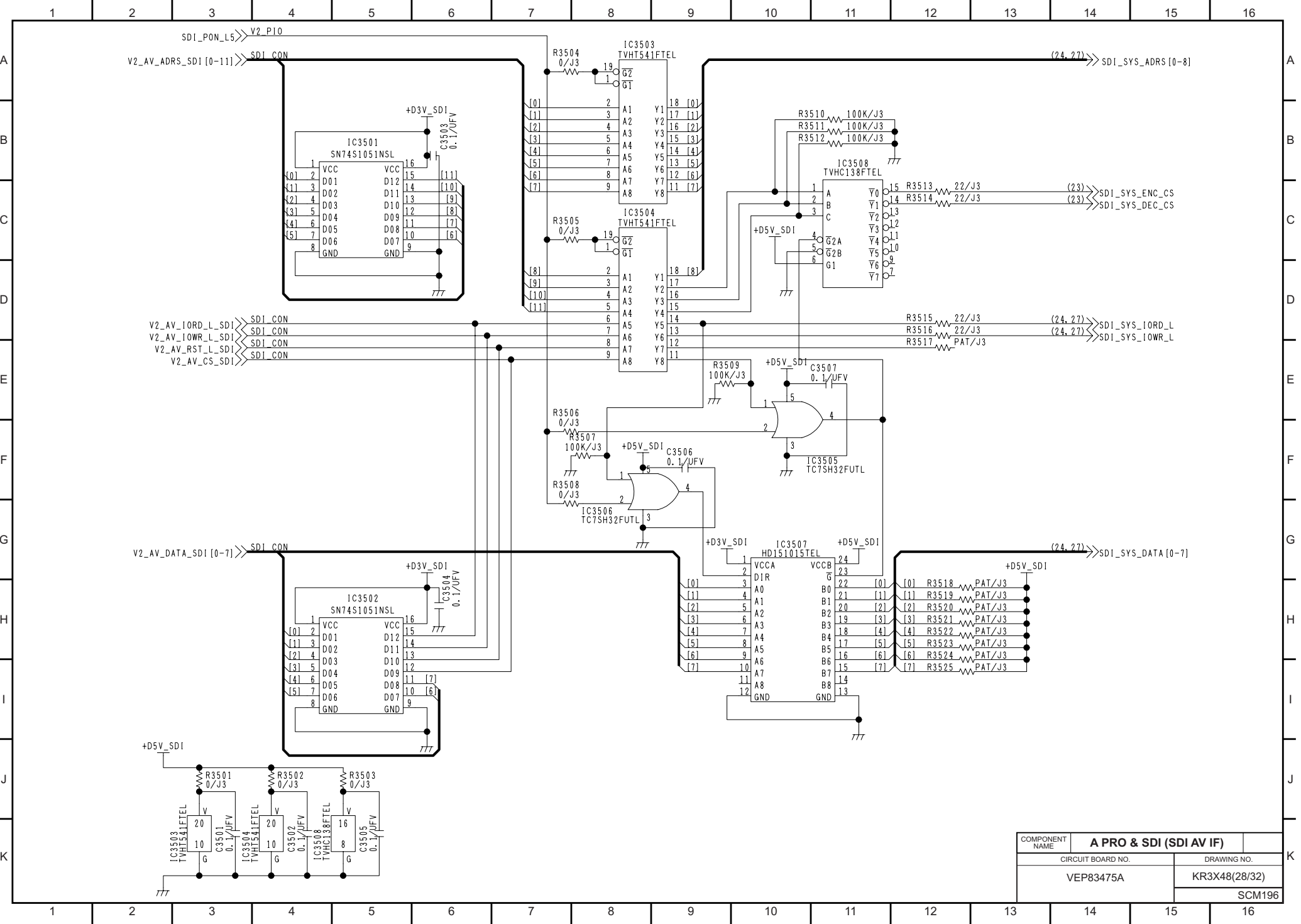
COMPONENT NAME	<b>A PRO &amp; SDI (S2P)</b>		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(26/32)	
		SCM194	





COMPONENT NAME		A PRO & SDI (SDI DEC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(27/32)	
		SCM195	



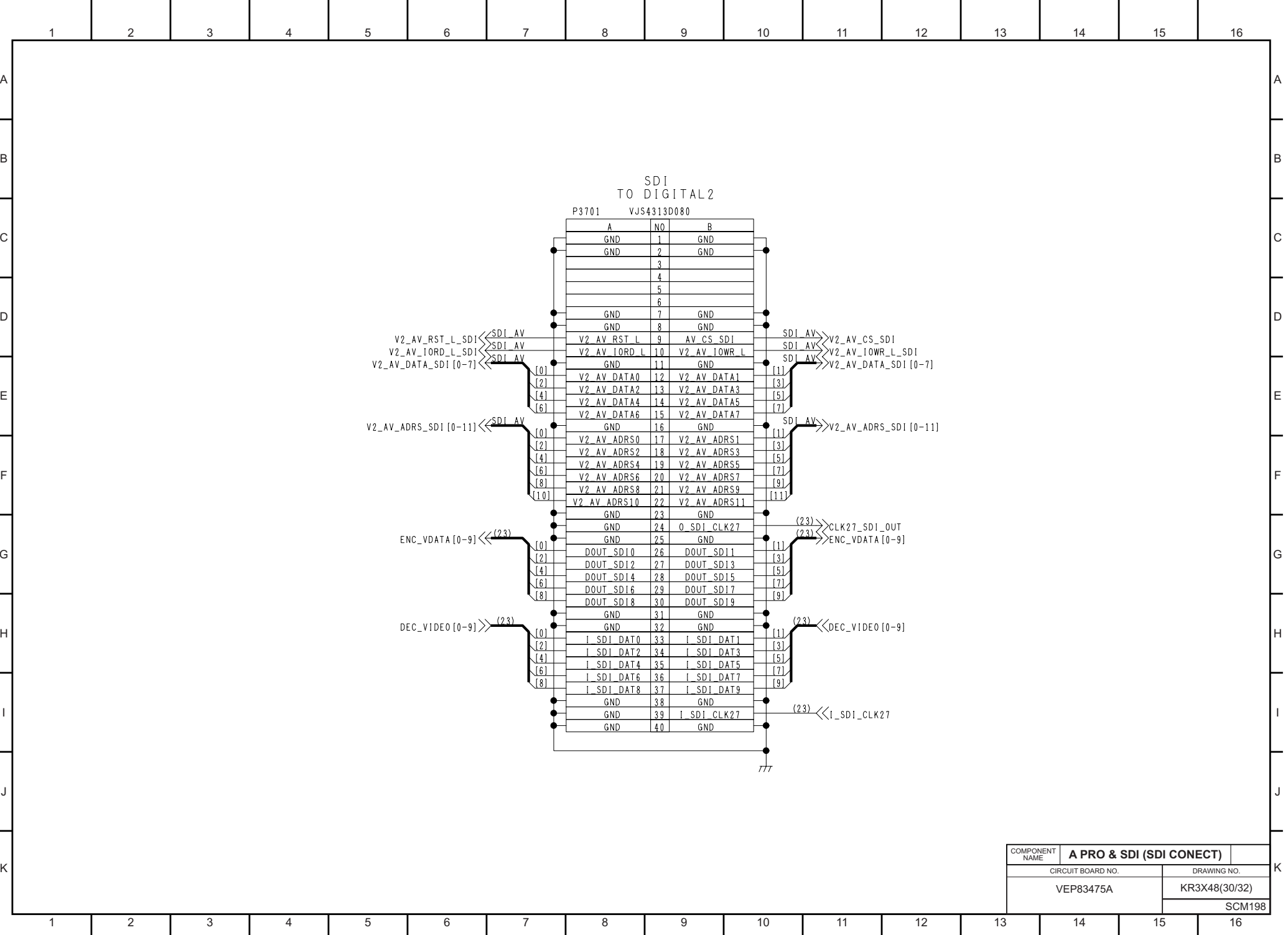


COMPONENT NAME	A PRO & SDI (SDI AV IF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(28/32)
SCM196		







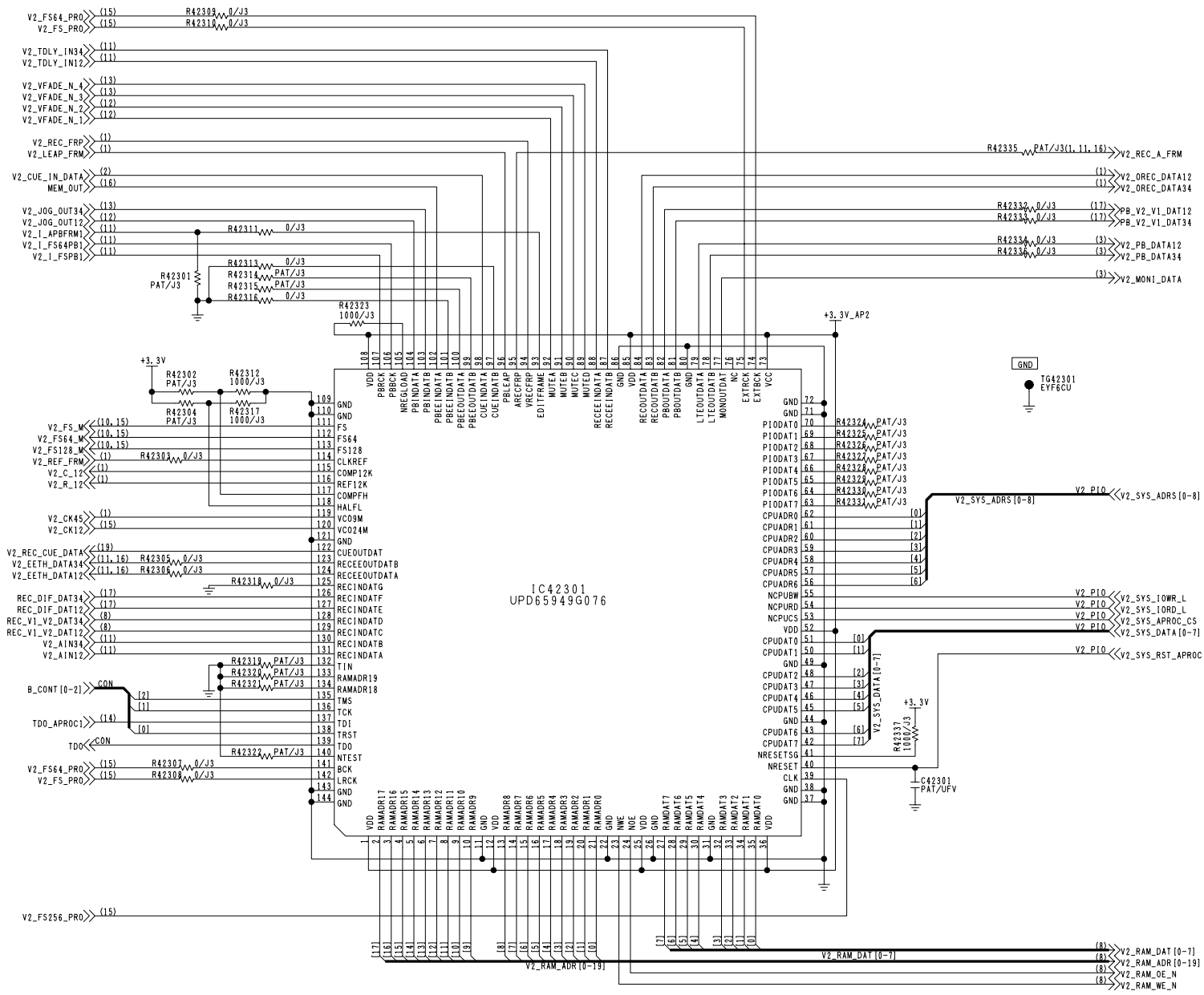


COMPONENT NAME	A PRO & SDI (SDI CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(30/32)
		SCM198



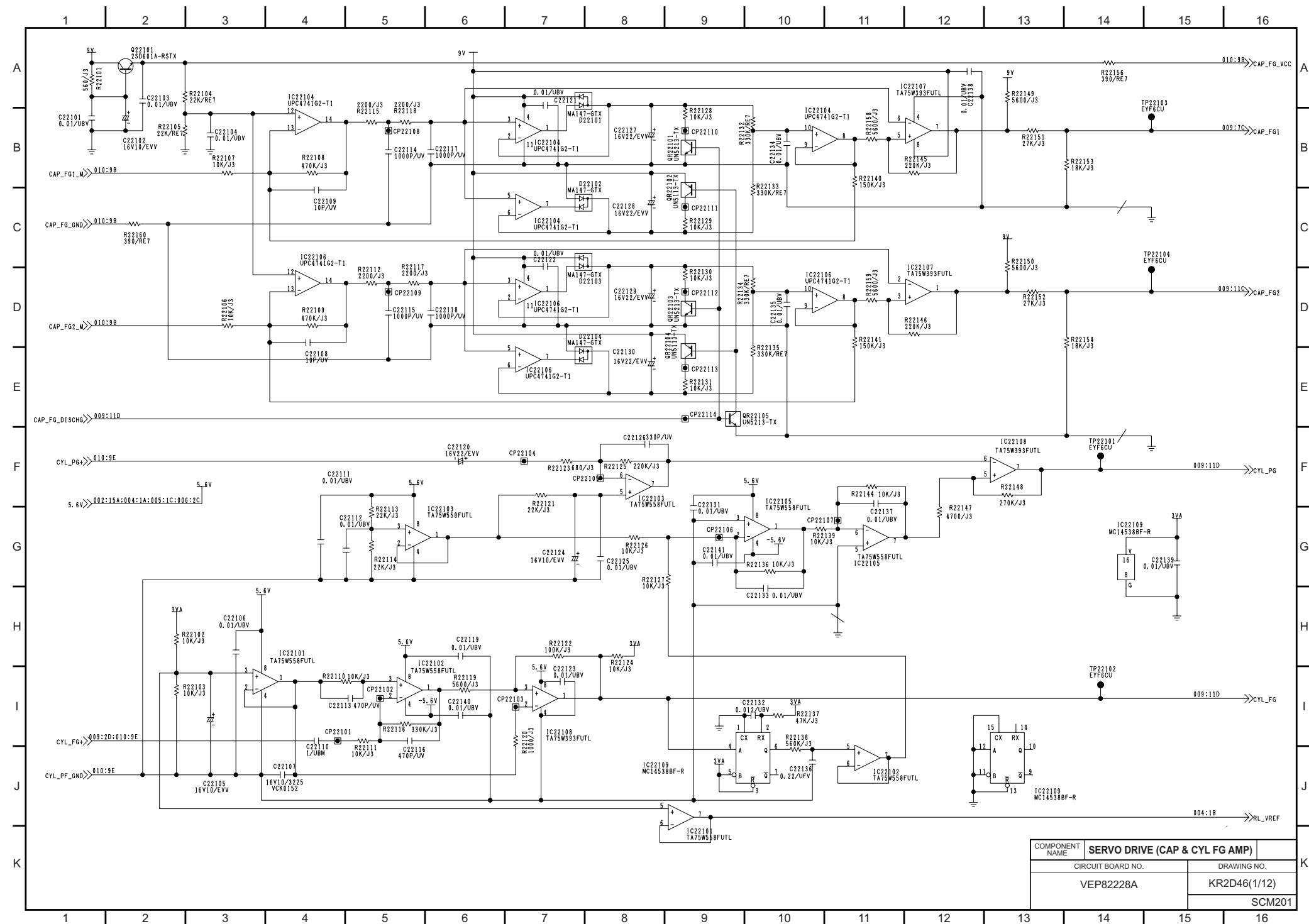






COMPONENT NAME	A PRO & SDI (V2 APROC)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(32/32)
SCM200		



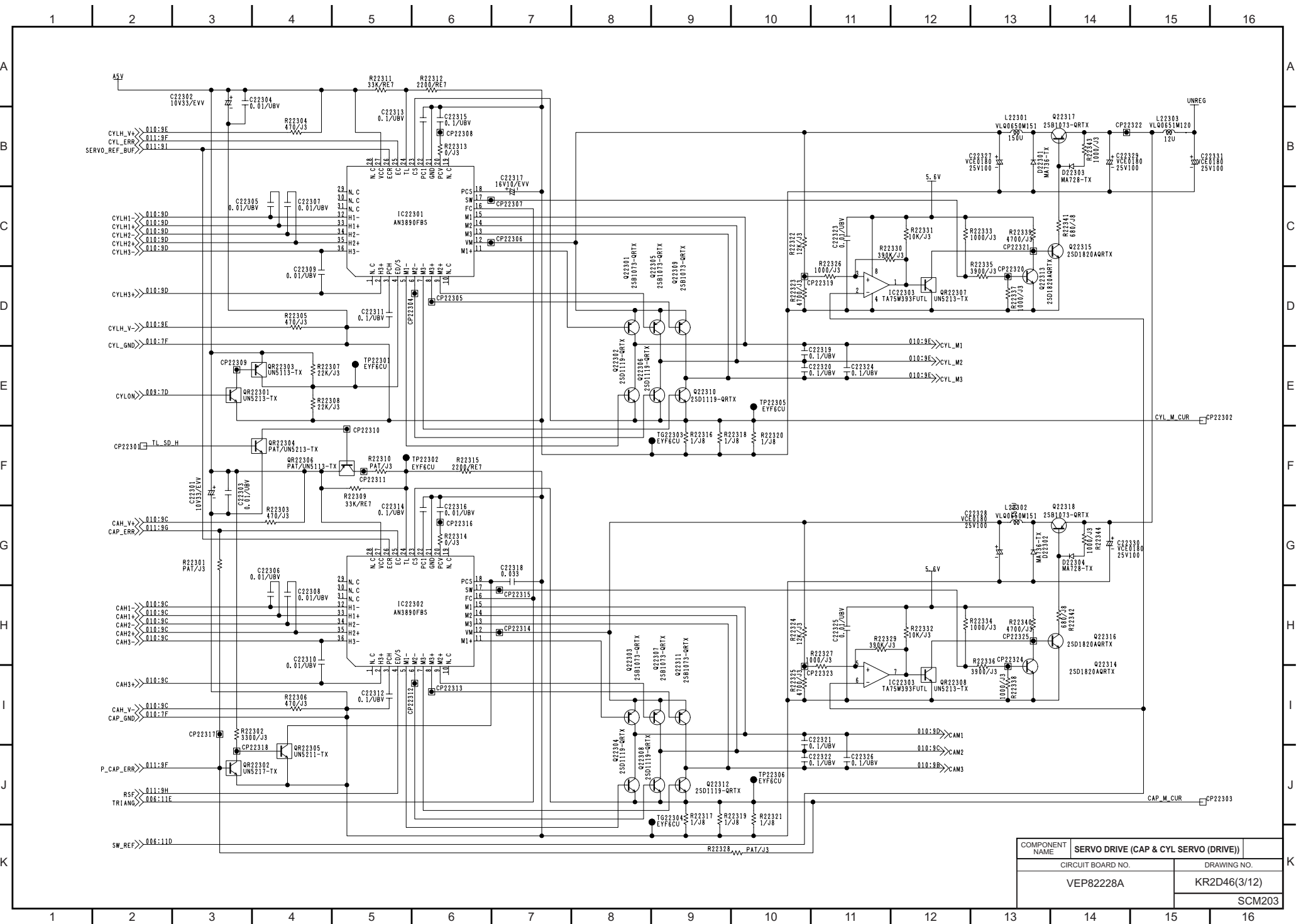


COMPONENT NAME	SERVO DRIVE (CAP & CYL FG AMP)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82228A		KR2D46(1/12)	
		SCM201	



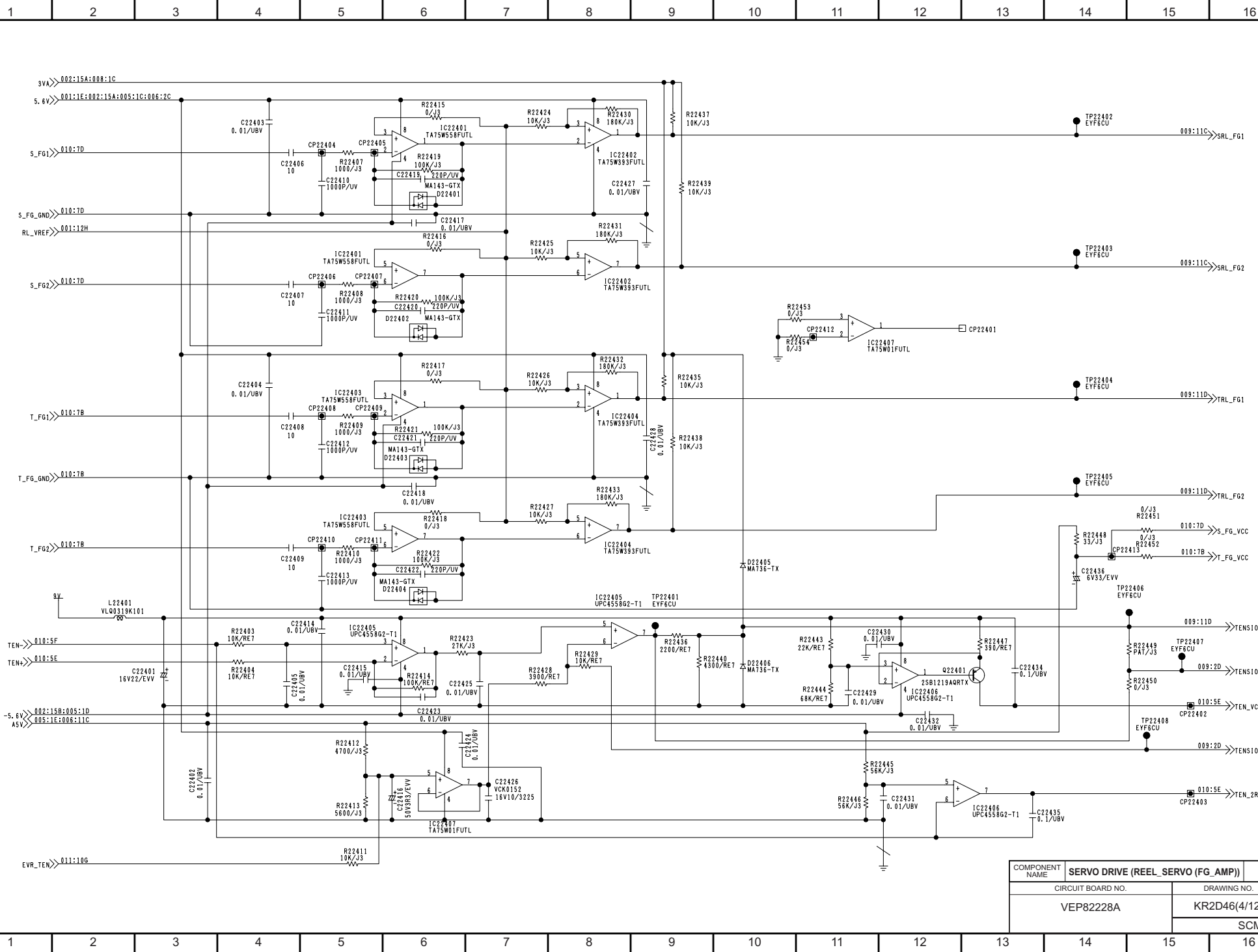






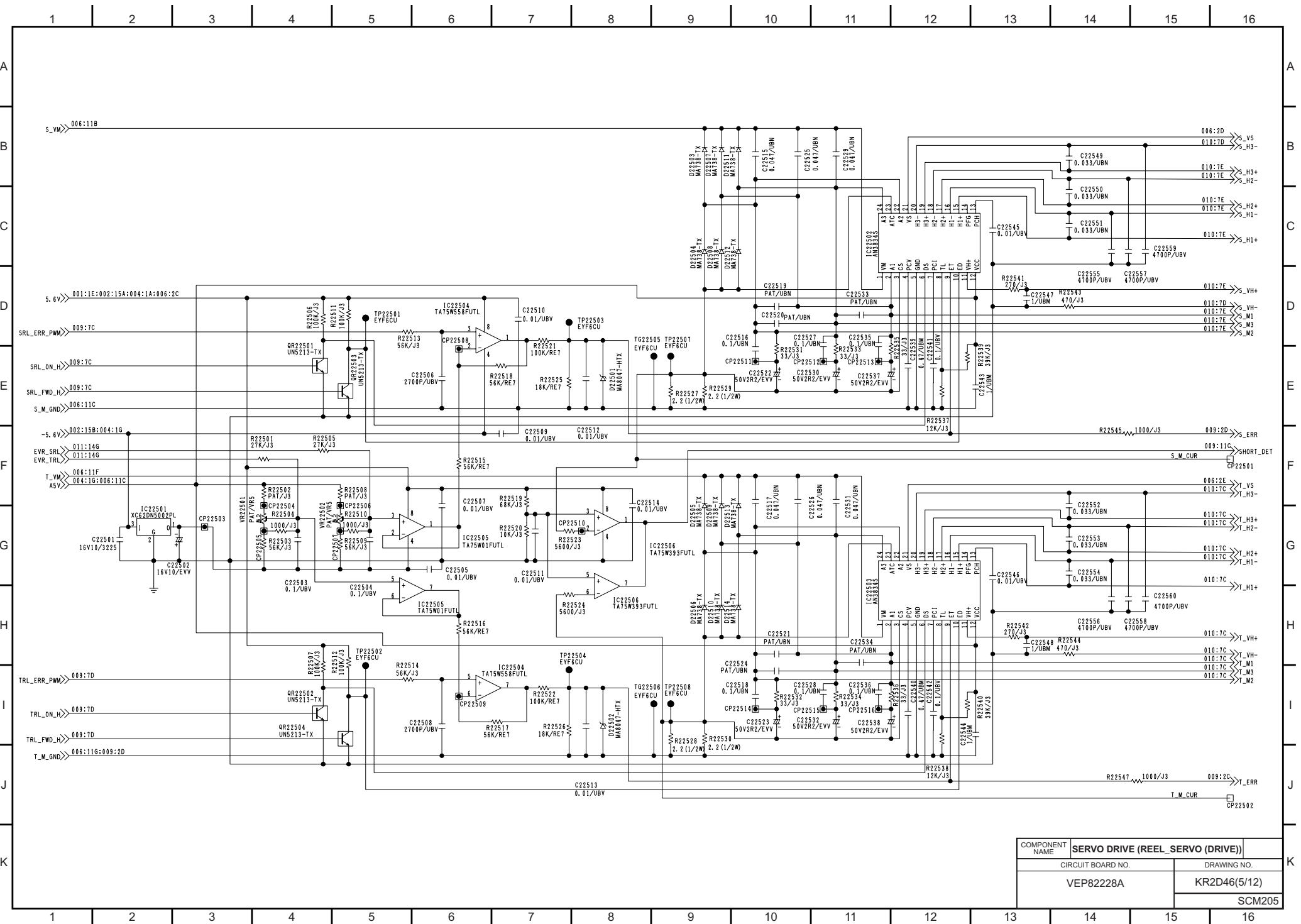
COMPONENT NAME		SERVO DRIVE (CAP & CYL SERVO (DRIVE))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82228A		KR2D46(3/12)	
		SCM203	





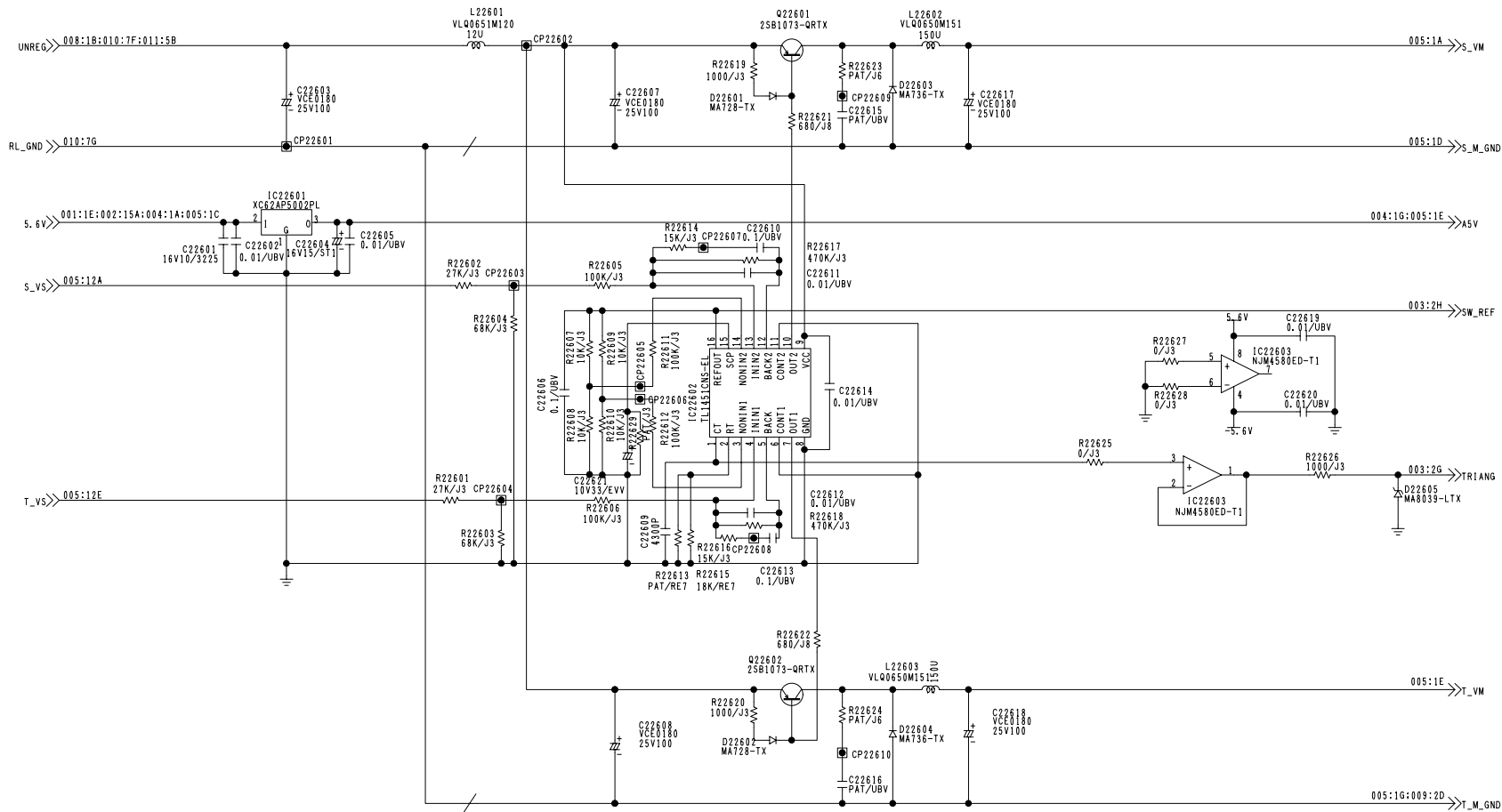
COMPONENT NAME	SERVO DRIVE (REEL_SERVO (FG_AMP))	
CIRCUIT BOARD NO.		DRAWING NO.
VEP82228A		KR2D46(4/12)
		SCM204





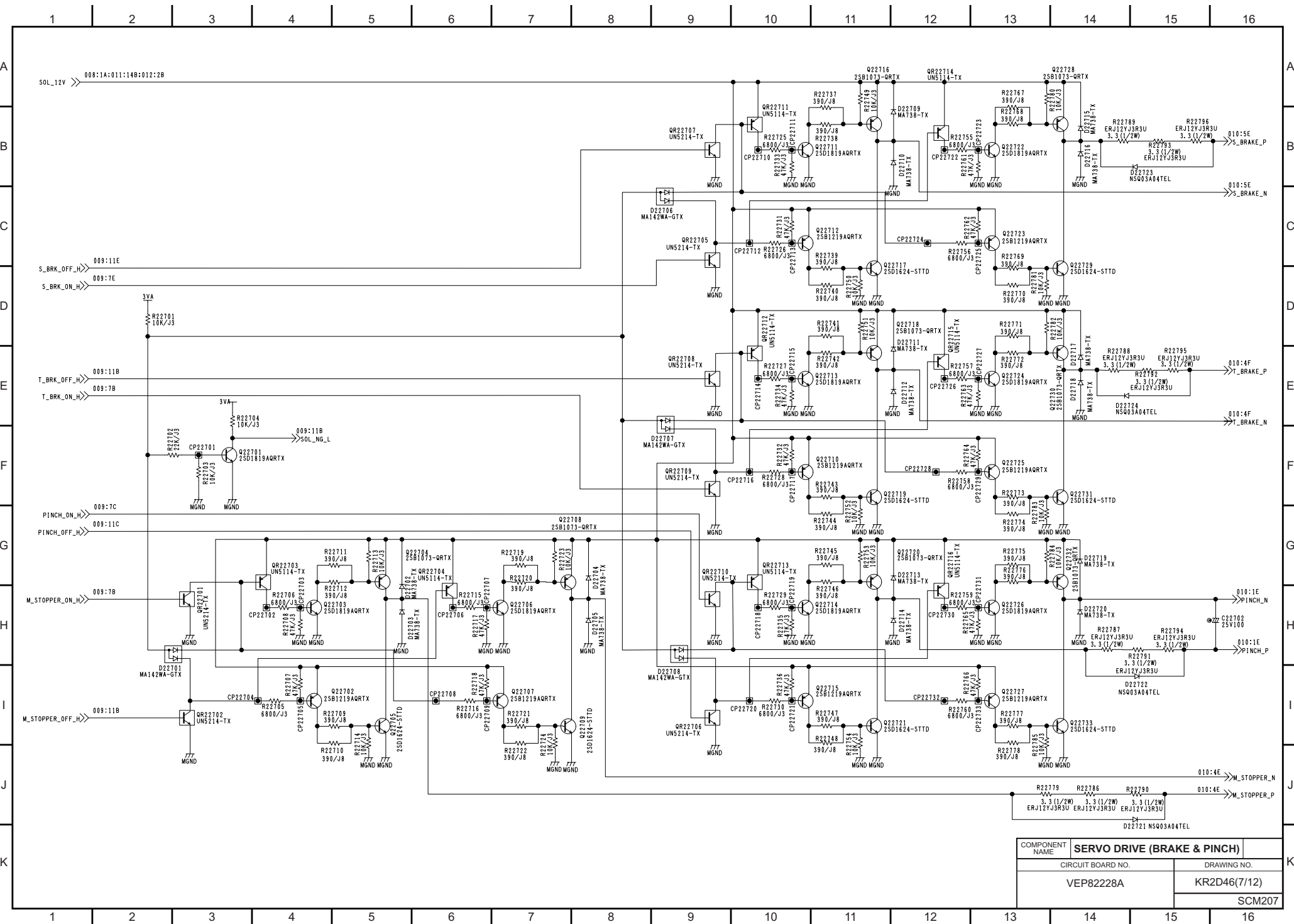
COMPONENT NAME	SERVO DRIVE (REEL_SERVO (DRIVE))	
CIRCUIT BOARD NO.	VEP82228A	DRAWING NO.
		KR2D46(5/12)
		SCM205



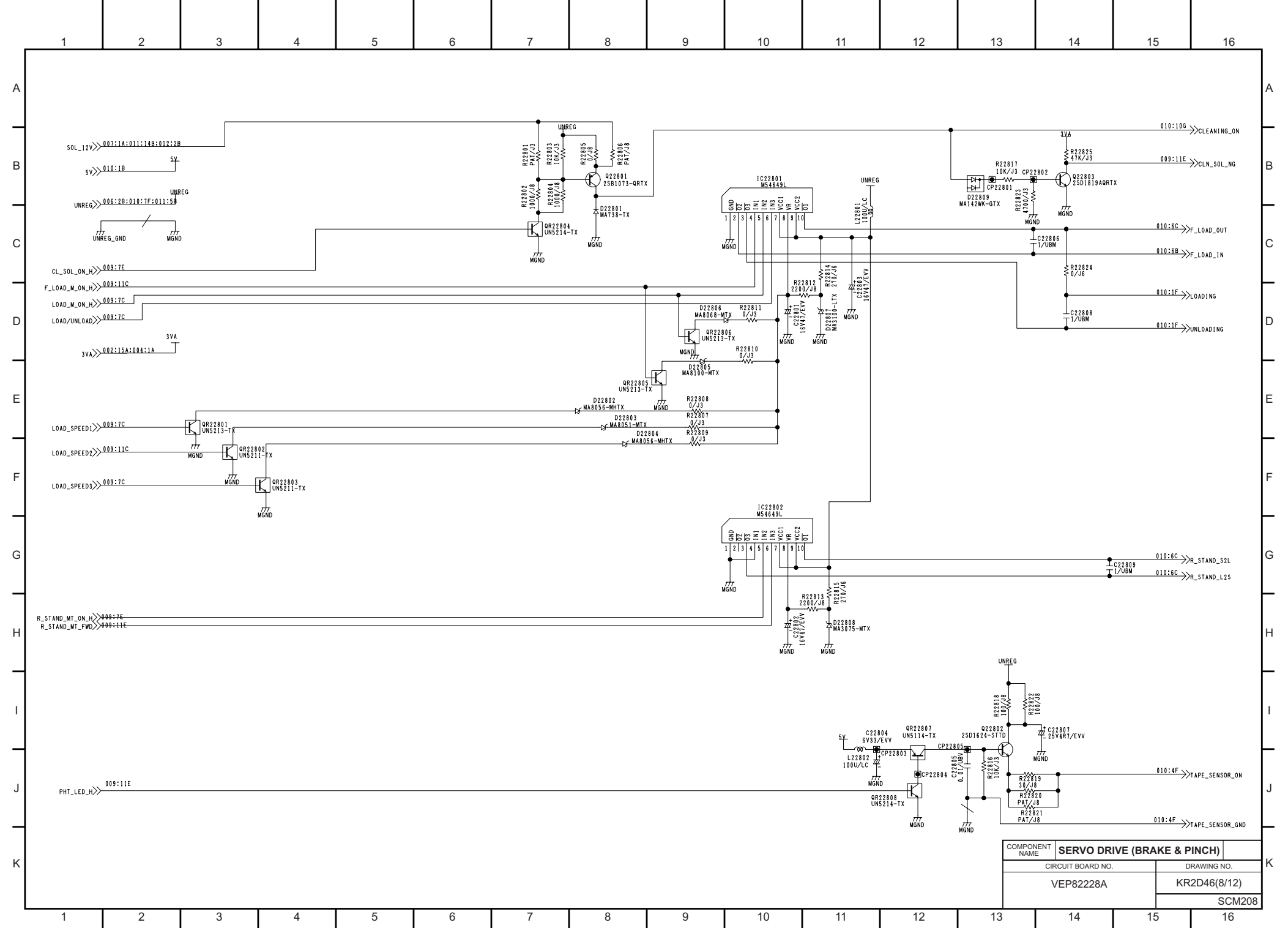


COMPONENT NAME	SERVO DRIVE (REEL_SERVO (SW_POWER))	
CIRCUIT BOARD NO.	VEP82228A	DRAWING NO.
		KR2D46(6/12)
		SCM206

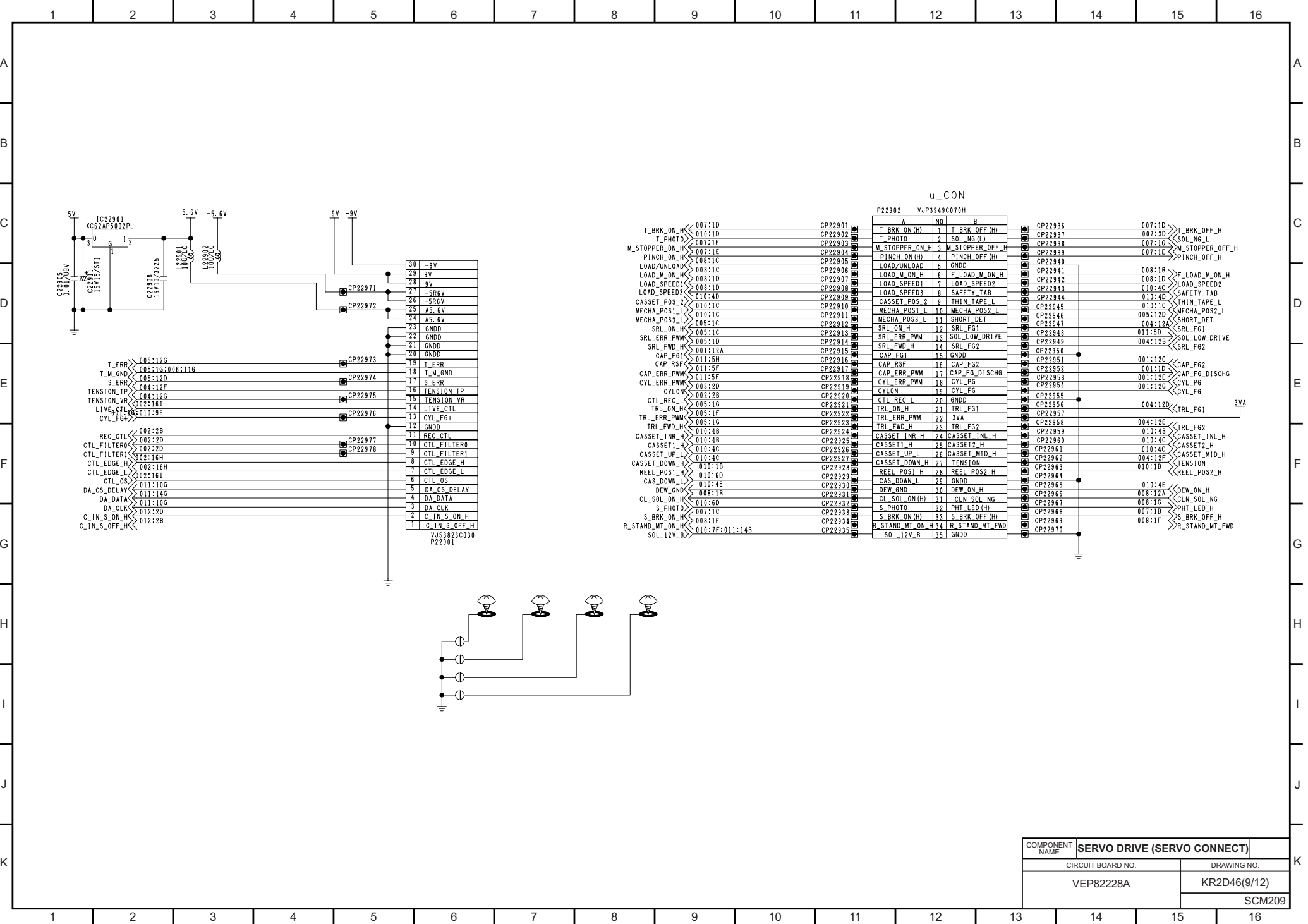




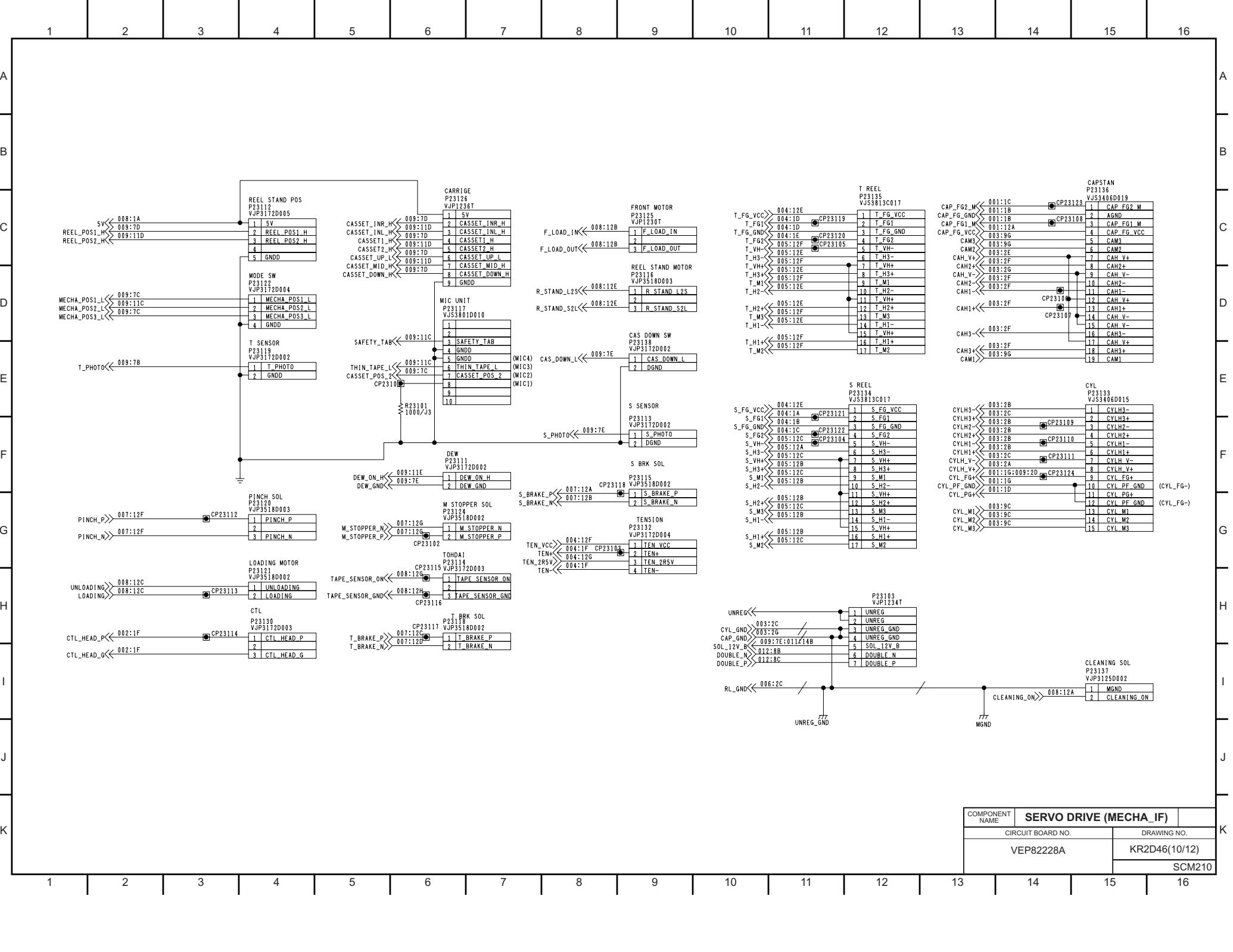






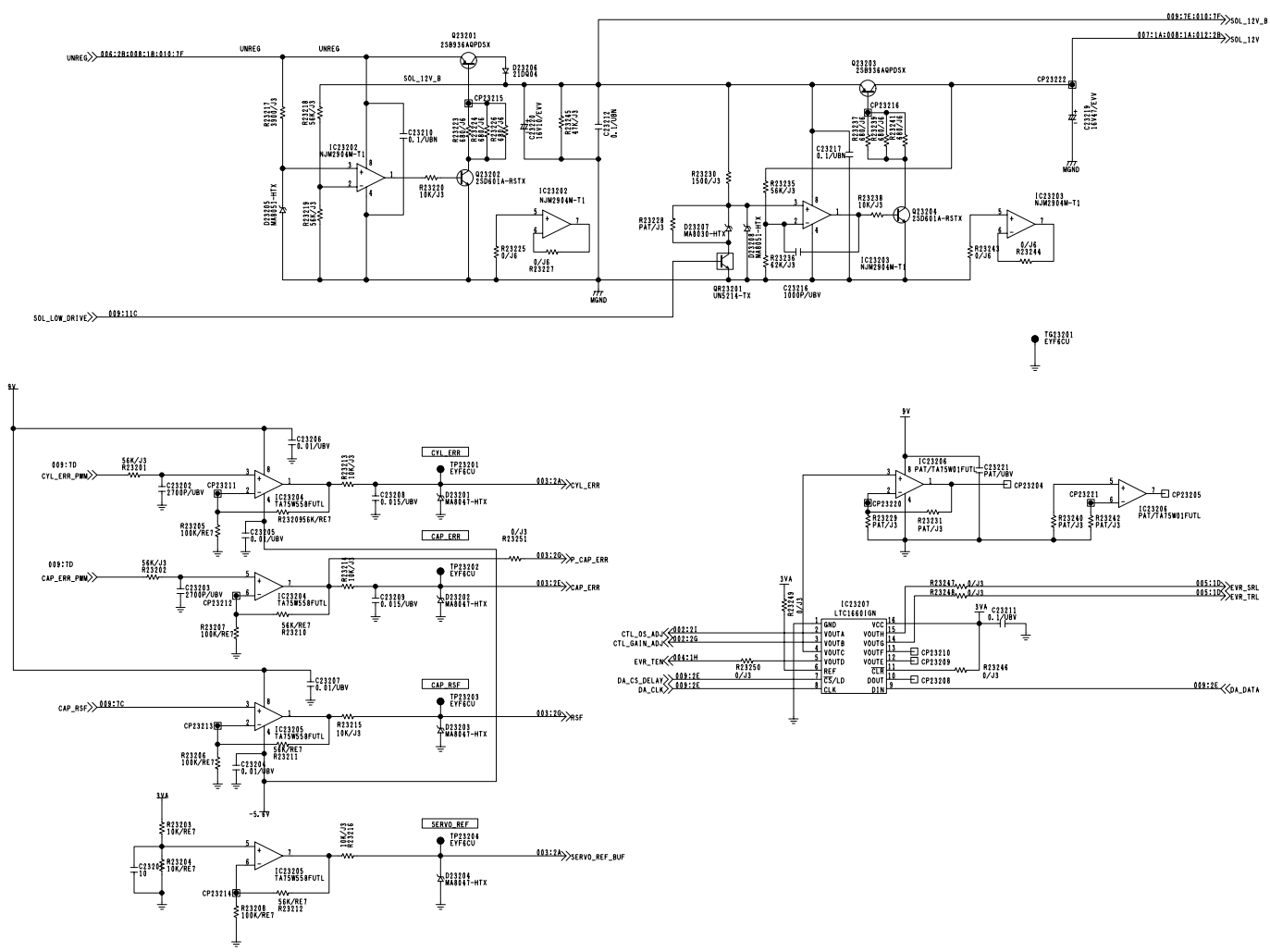






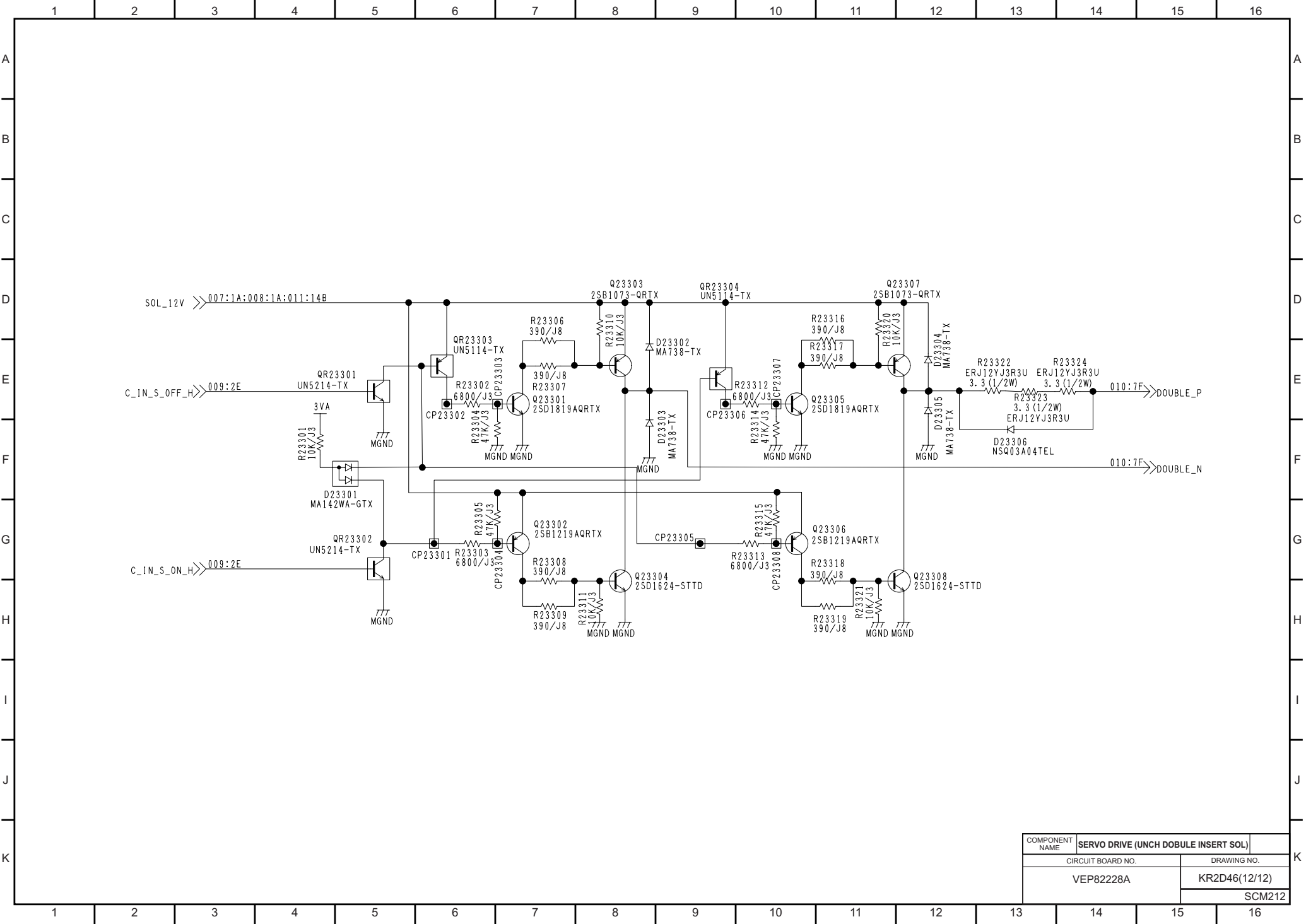
COMPONENT NAME	SERVO DRIVE (MECHA_IF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP82228A		KR2D46(10/12)
		SCM210





COMPONENT NAME	SERVO DRIVE (DACK & PWM & SOL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP82228A		KR2D46(11/12)
SCM211		



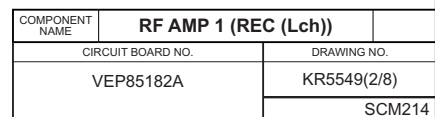


COMPONENT NAME	SERVO DRIVE (UNCH DOBULE INSERT SOL)	
CIRCUIT BOARD NO.	VEP82228A	DRAWING NO.
		KR2D46(12/12)
		SCM212



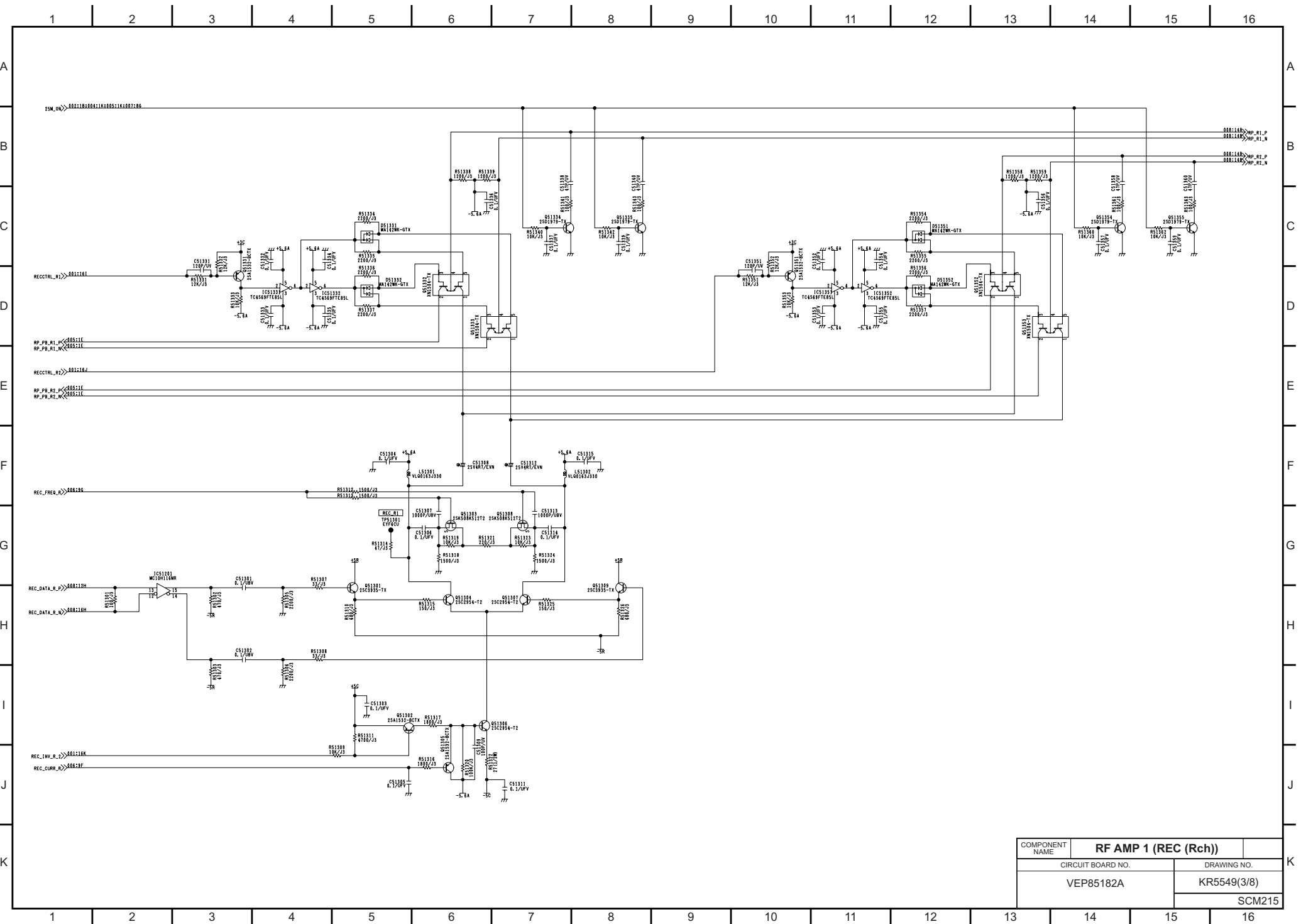






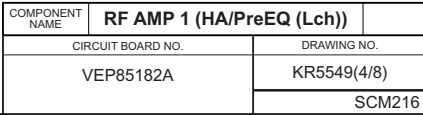
COMPONENT NAME	RF AMP 1 (REC (Lch))	
CIRCUIT BOARD NO.		DRAWING NO.
VEP85182A		KR5549(2/8)
		SCM214





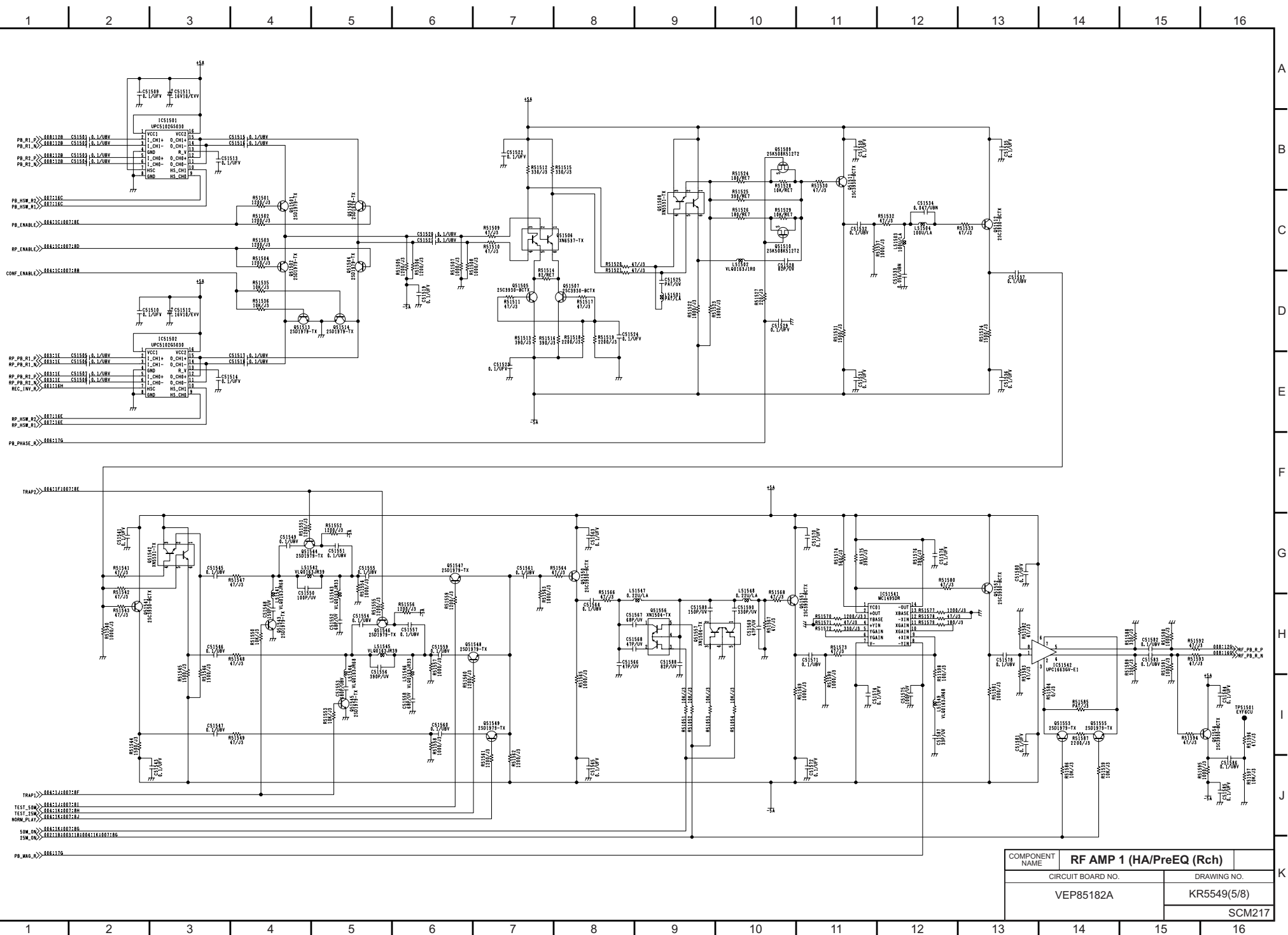
COMPONENT NAME		RF AMP 1 (REC (Rch))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85182A		KR8549(3/8)	
		SCM215	





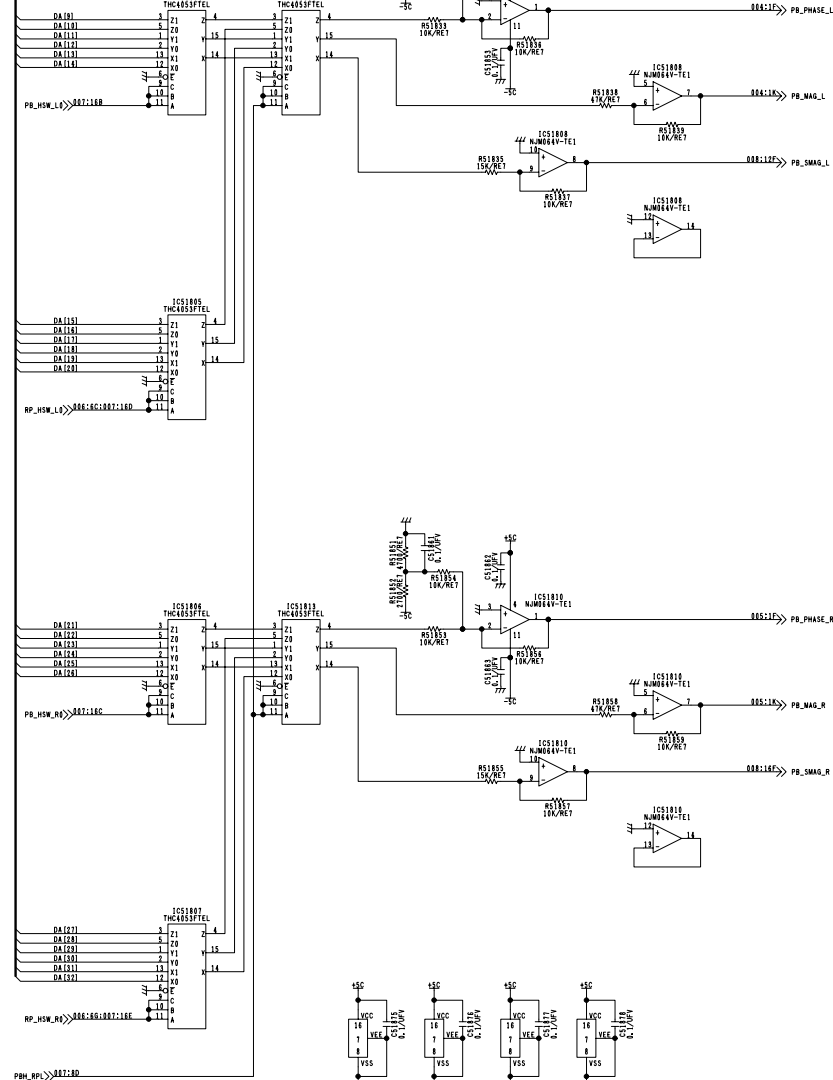
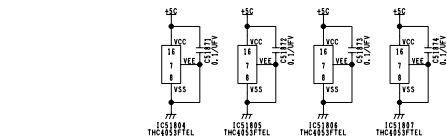
COMPONENT NAME	RF AMP 1 (HA/PreEQ (Lch))		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85182A		KR5549(4/8)	
		SCM216	





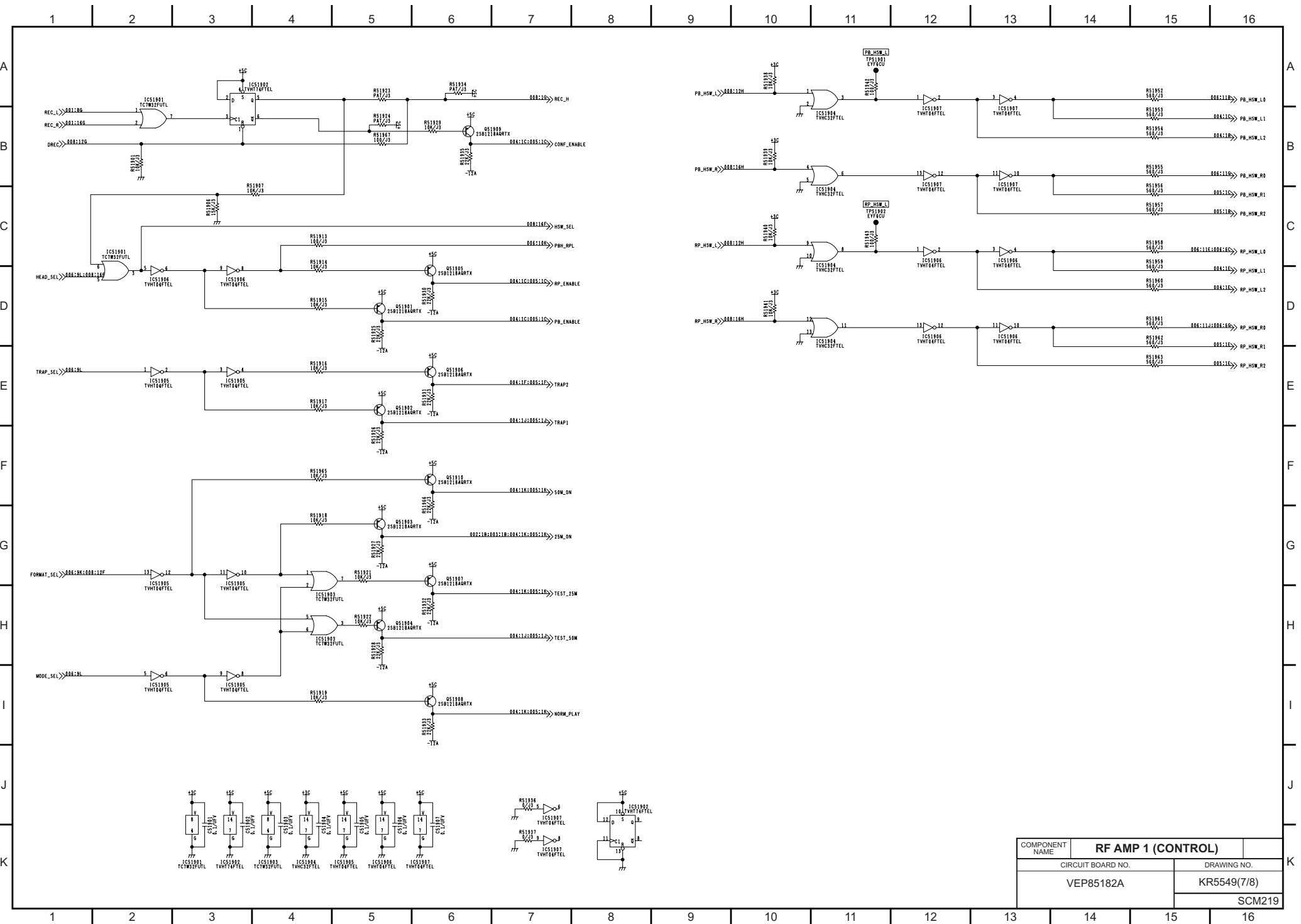
COMPONENT NAME	RF AMP 1 (HA/PreEQ (Rch)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85182A		KR5549(5/8)	
		SCM217	



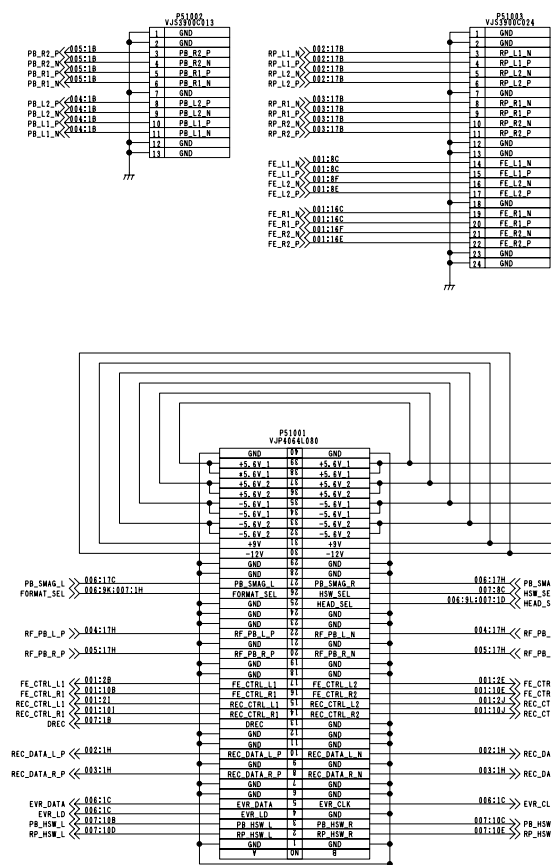


COMPONENT NAME	RF AMP 1 (EVR)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85182A		KR5549(6/8)	
		SCM218	



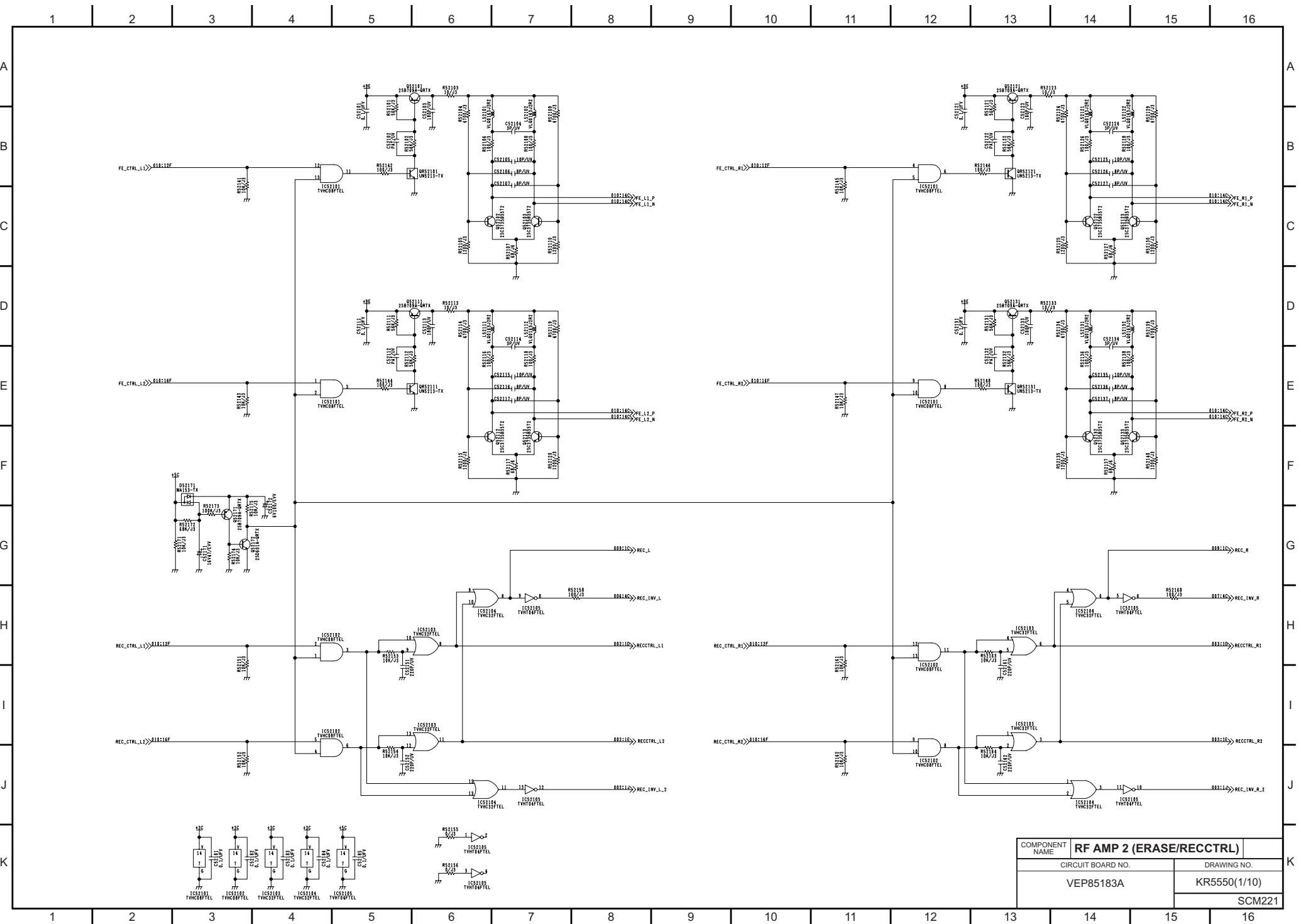






COMPONENT NAME	RF AMP 1 (POWER/CONNECTOR)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85182A	KR5549(8/8)	
	SCM220	











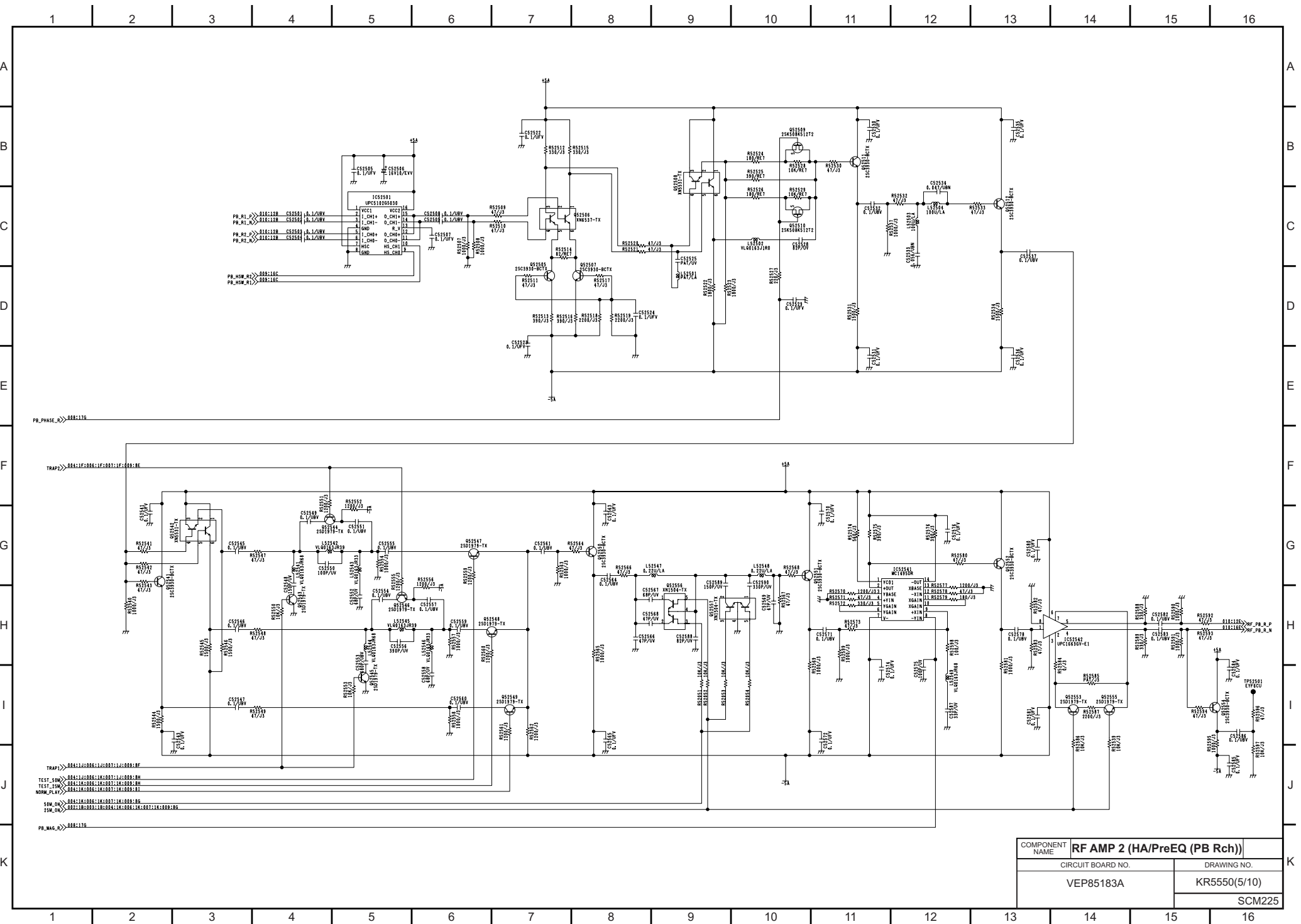




The schematic diagram illustrates a 100W Class D audio amplifier. The core component is the UPC1058S010 IC, which is configured as a Class D amplifier. The power supply section consists of a 15A transformer connected to a 15V supply. The output of the transformer is connected to a 1000µF electrolytic capacitor (C5240A) for filtering. The filtered supply is connected to the IC's VCC1 pin (pin 15) and the emitter of the 2N6501-TX driver transistor (pin 14). The 2N6501-TX transistor is connected to the IC's output pin (pin 16) and drives the 2SC930B-NCTX output transistor. The 2SC930B-NCTX transistor is connected to the speaker (250W/8Ω) and the 15V supply. The audio input is connected to the IC's inputs (pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13) and the 15V supply. The output of the amplifier is connected to the speaker through a 250W/8Ω speaker. The circuit includes various resistors and capacitors for biasing and filtering, including a 100kΩ resistor (R5240A) and a 100µF capacitor (C5240A).

COMPONENT NAME	RF AMP 2 (HA/PreEQ (PB Lch))	
CIRCUIT BOARD NO.		DRAWING NO.
VEP85183A		KR5550(4/10)
		SCM224



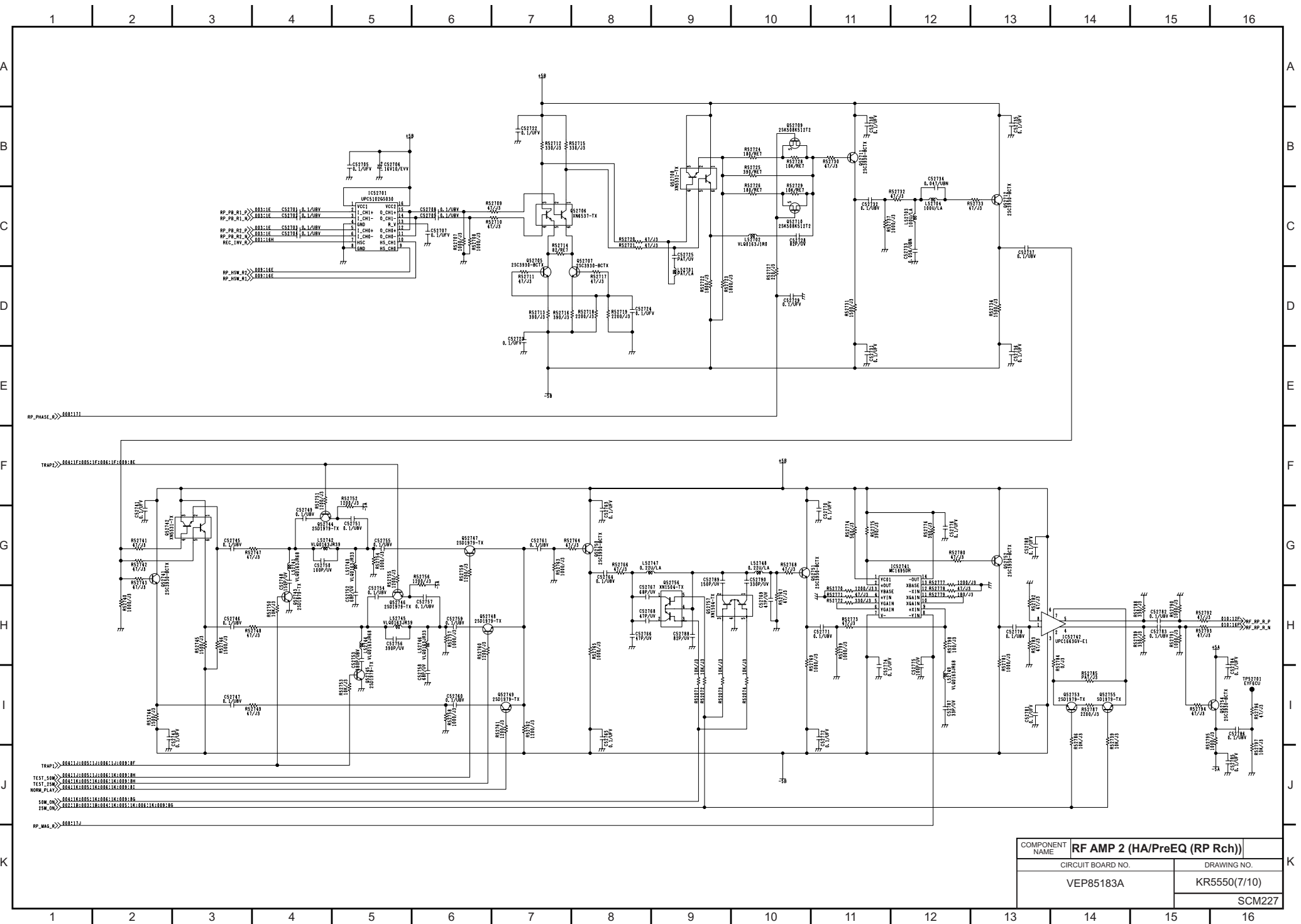


COMPONENT NAME	RF AMP 2 (HA/PreEQ (PB Rch))	
CIRCUIT BOARD NO.	VEP85183A	DRAWING NO.
		KR5550(5/10)
		SCM225



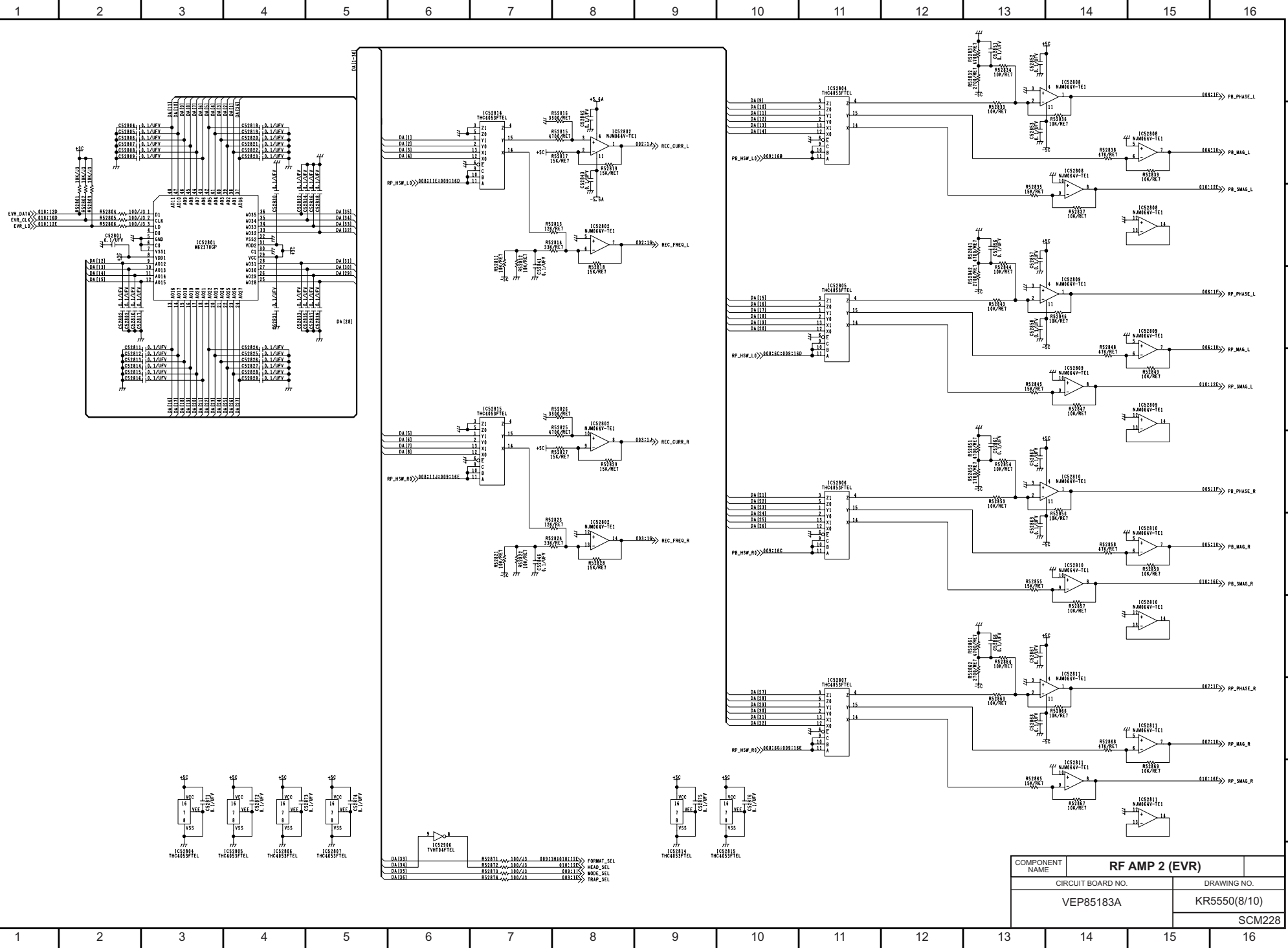






COMPONENT NAME		RF AMP 2 (HA/PreEQ (RP Rch))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85183A		KR5550(7/10)	
		SCM227	

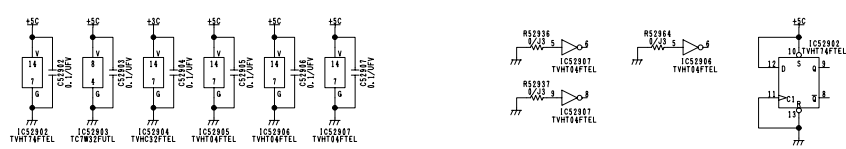
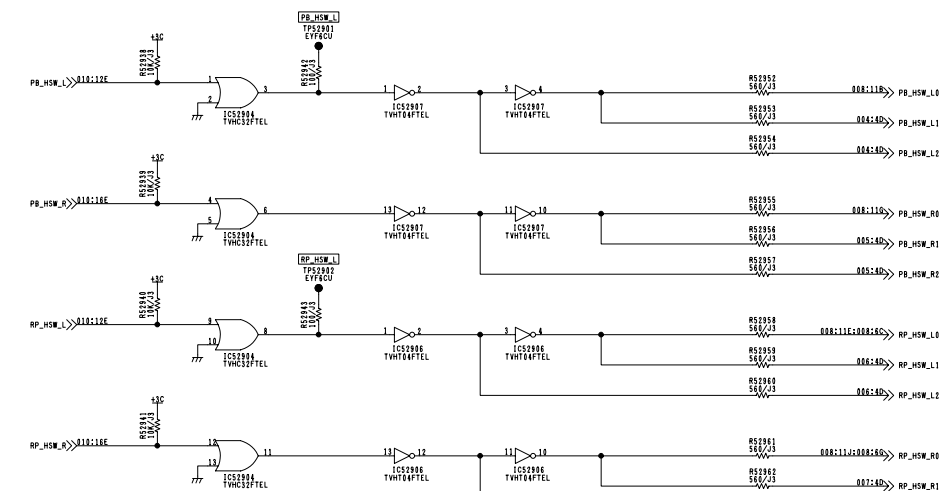
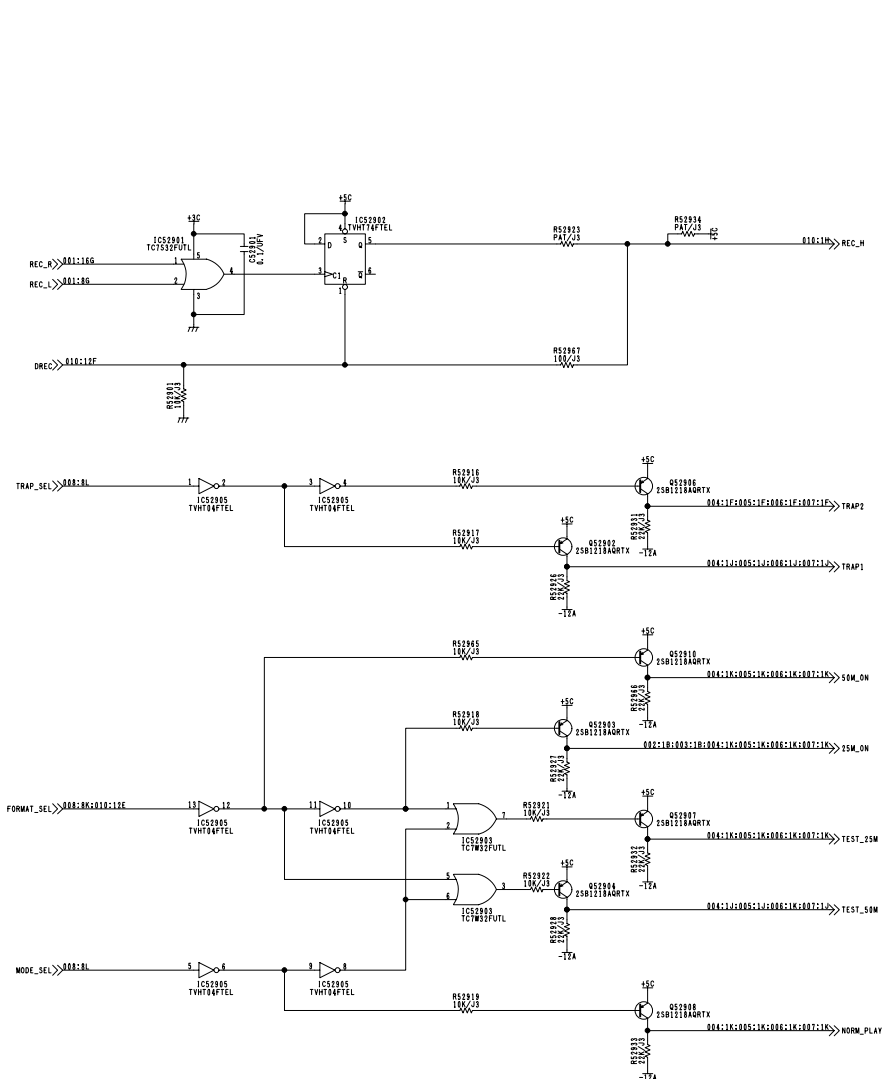






A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K

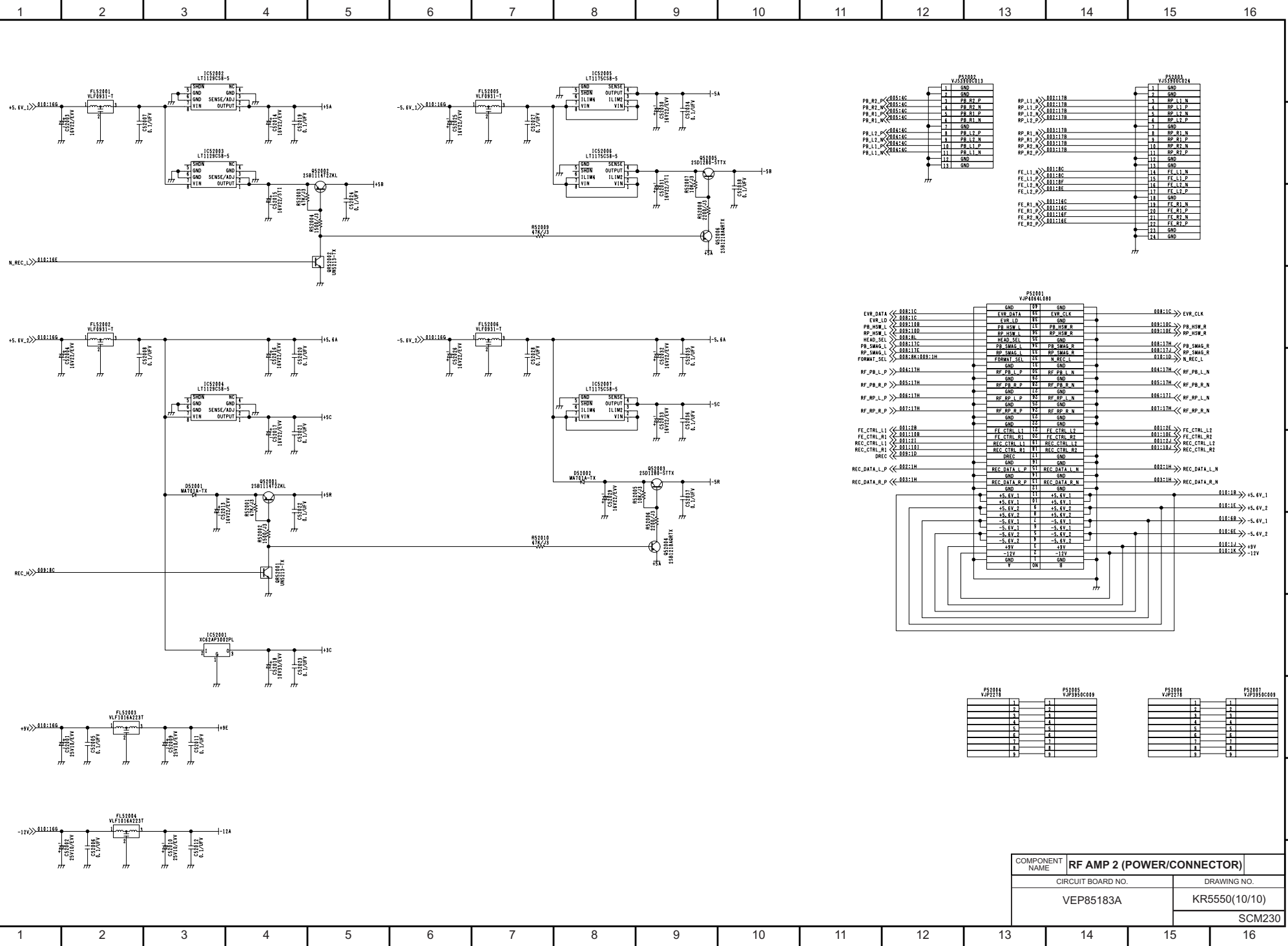
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



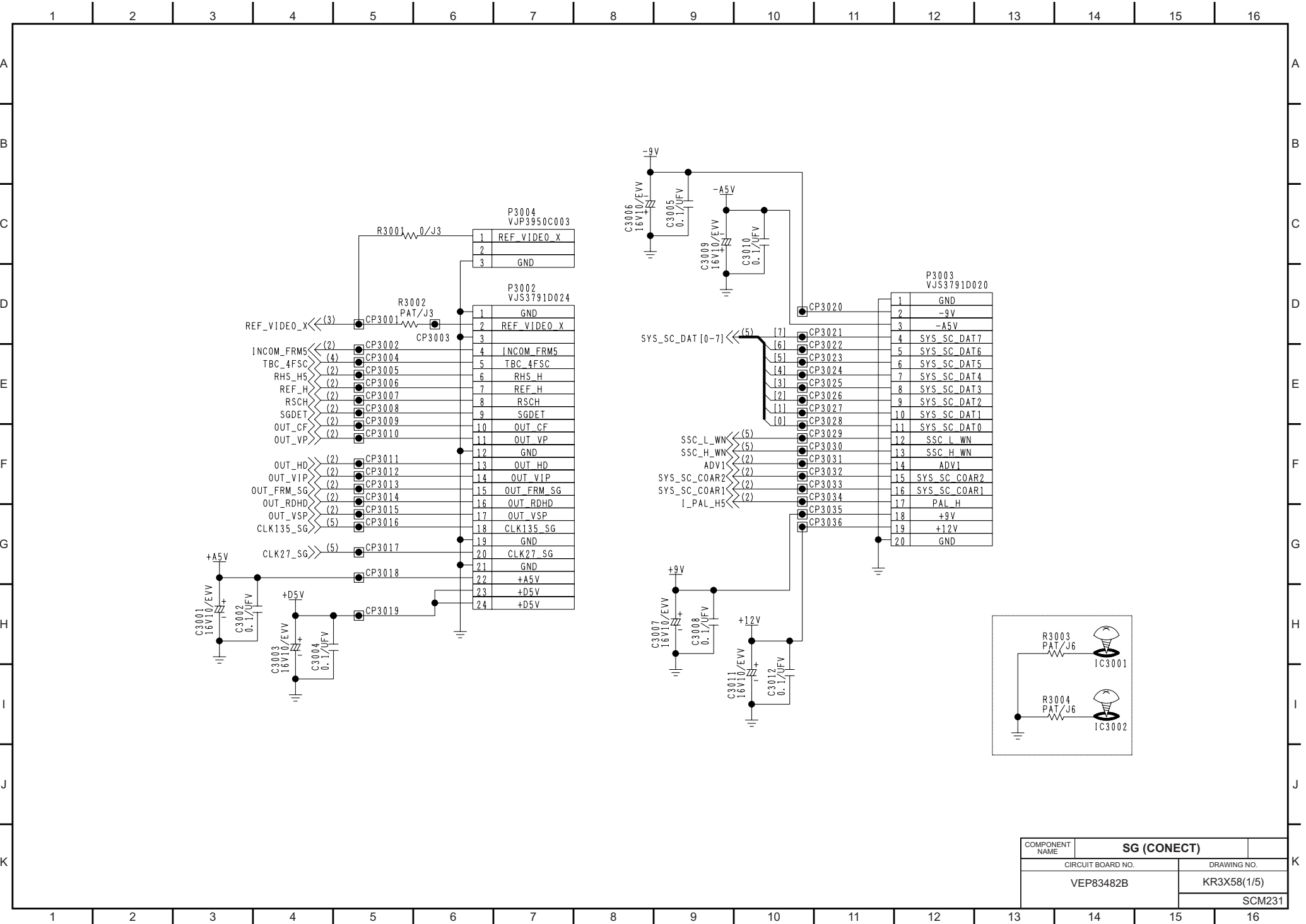
COMPONENT NAME	RF AMP 2 (CONTROL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP85183A		KR5550(9/10)
SCM229		

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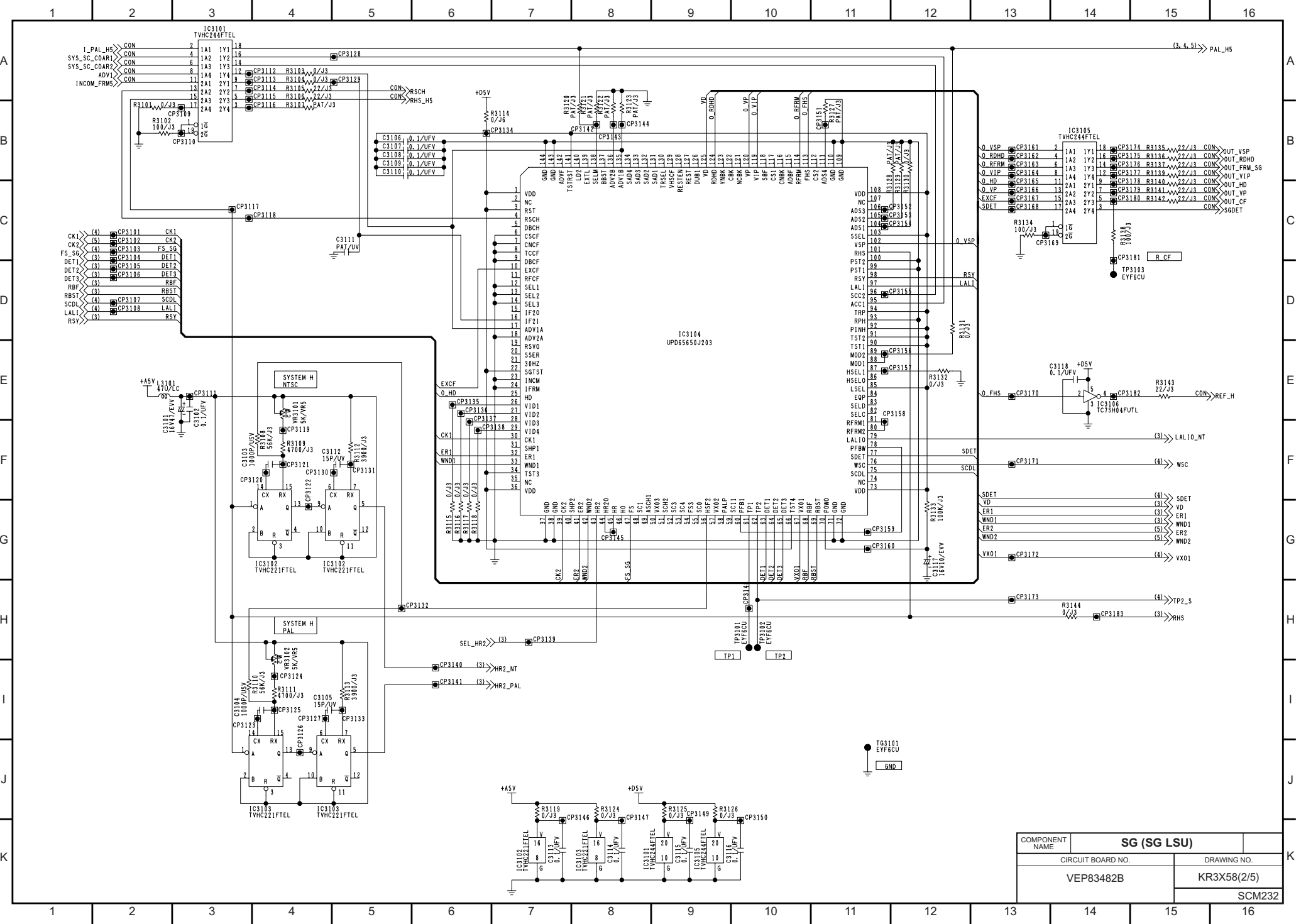






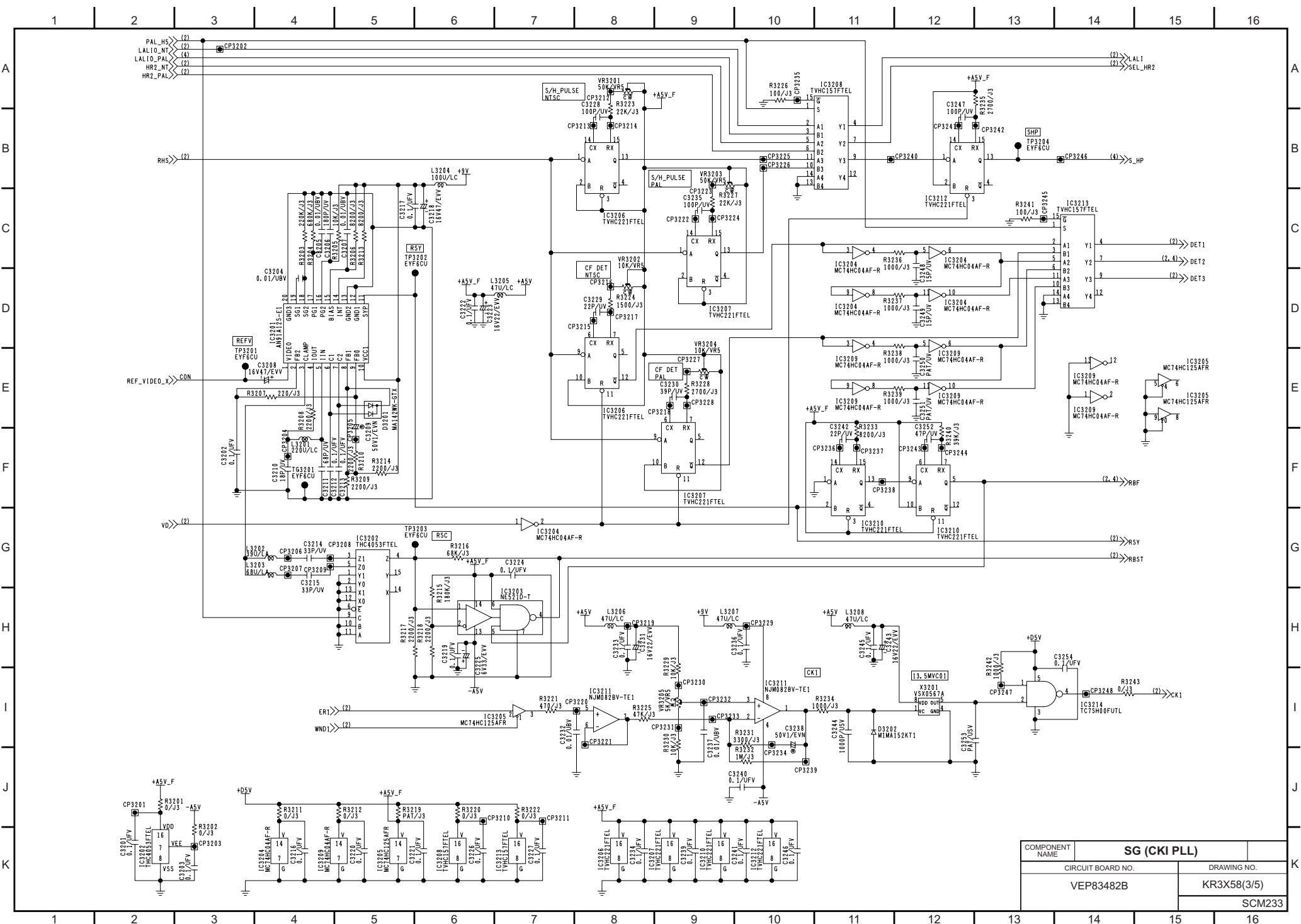
COMPONENT NAME		SG (CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83482B		KR3X58(1/5)	
		SCM231	





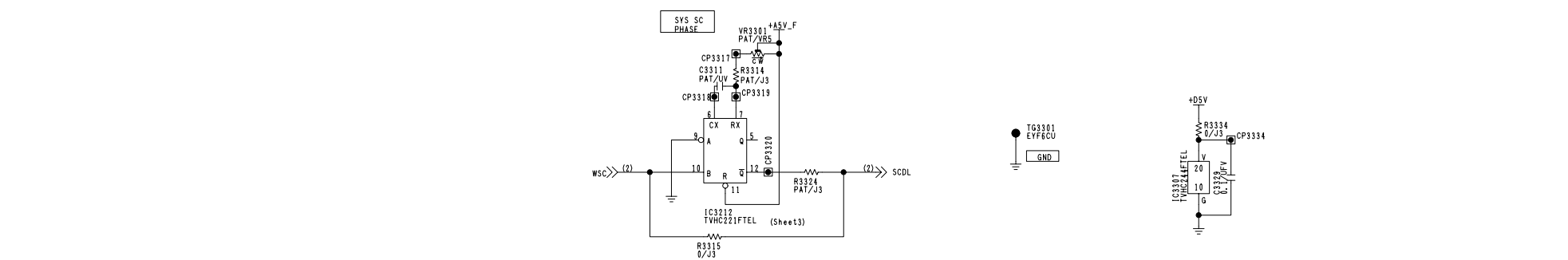
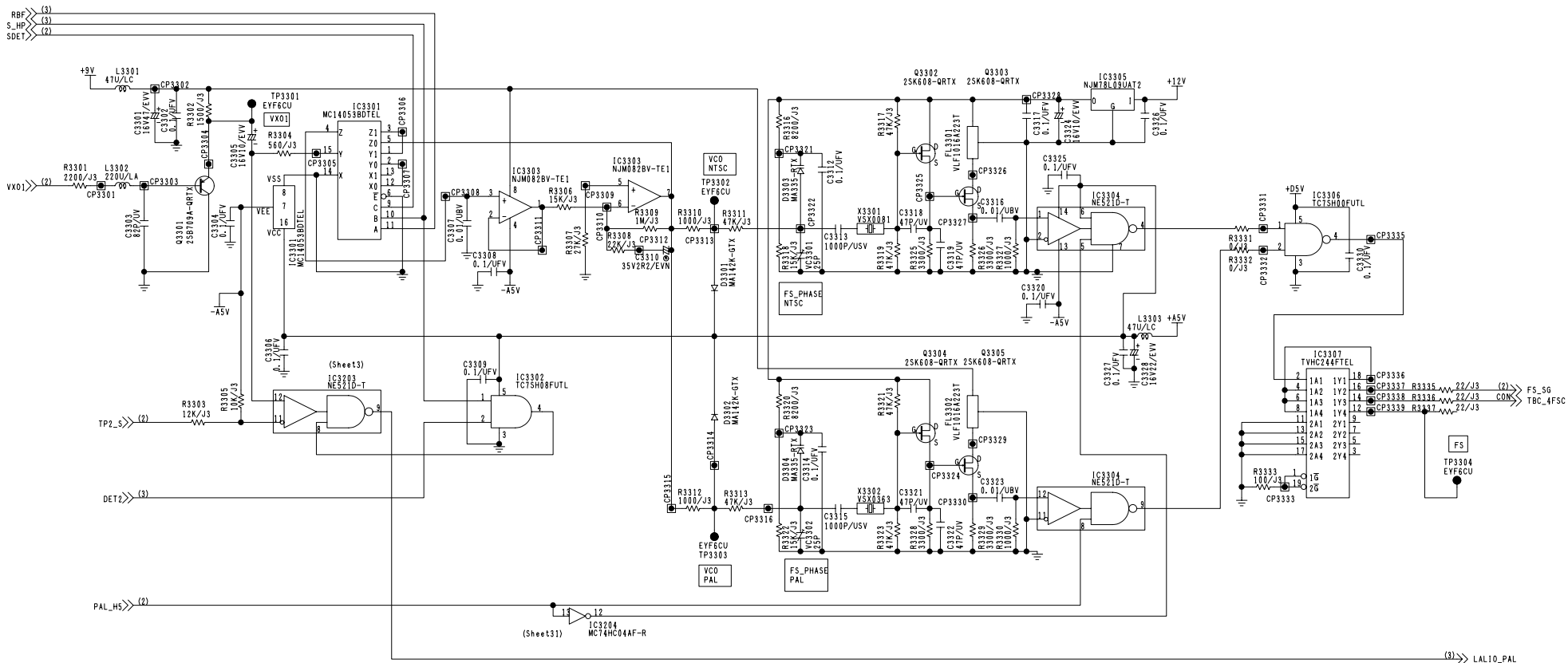
SG (SG LSU)	
CIRCUIT BOARD NO.	DRAWING NO.
VEP83482B	KR3X58(2/5)
SCM232	







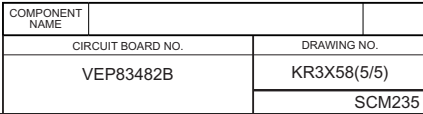
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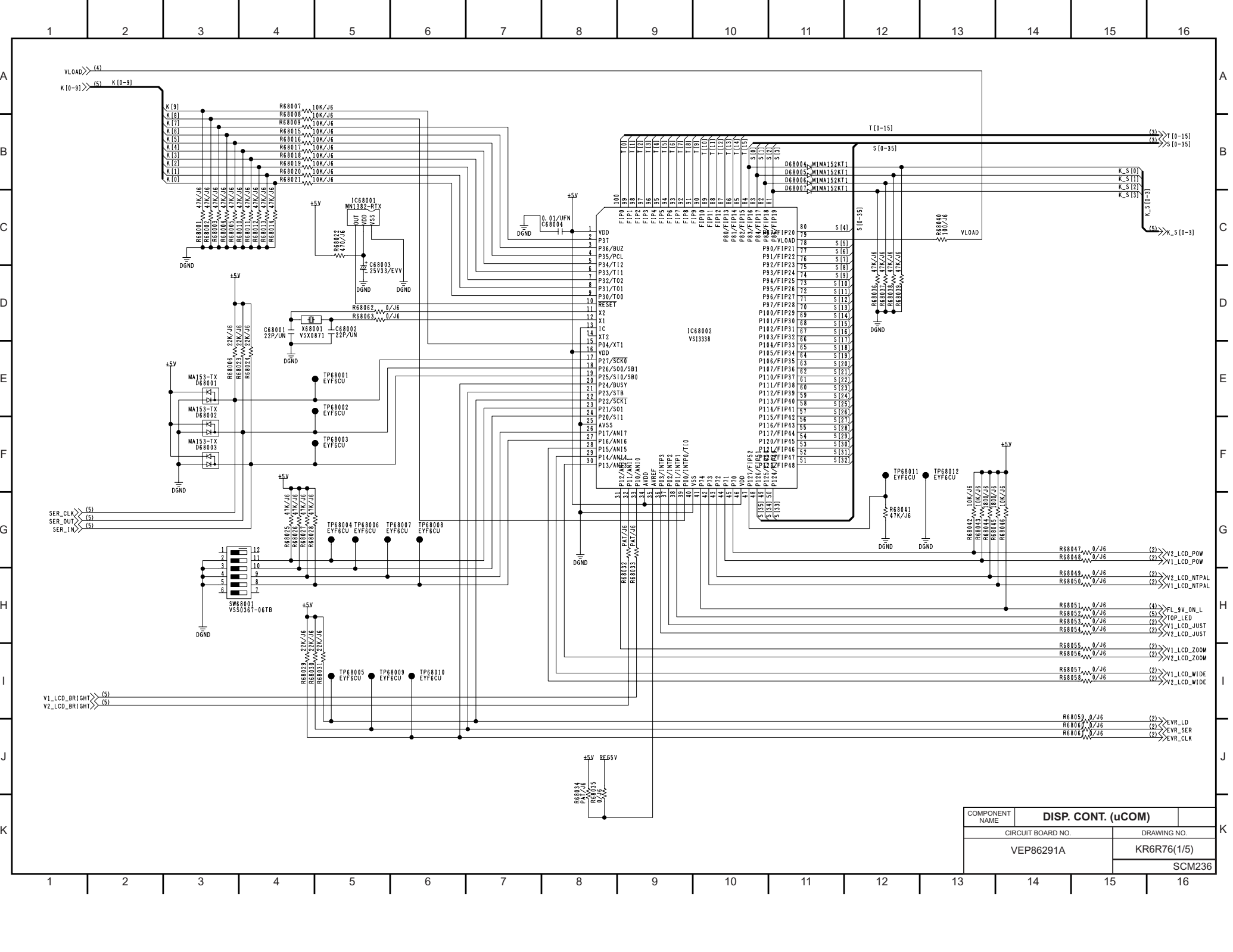
COMPONENT NAME	SG (FS PLL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83482B		KR3X58(4/5)
		SCM234

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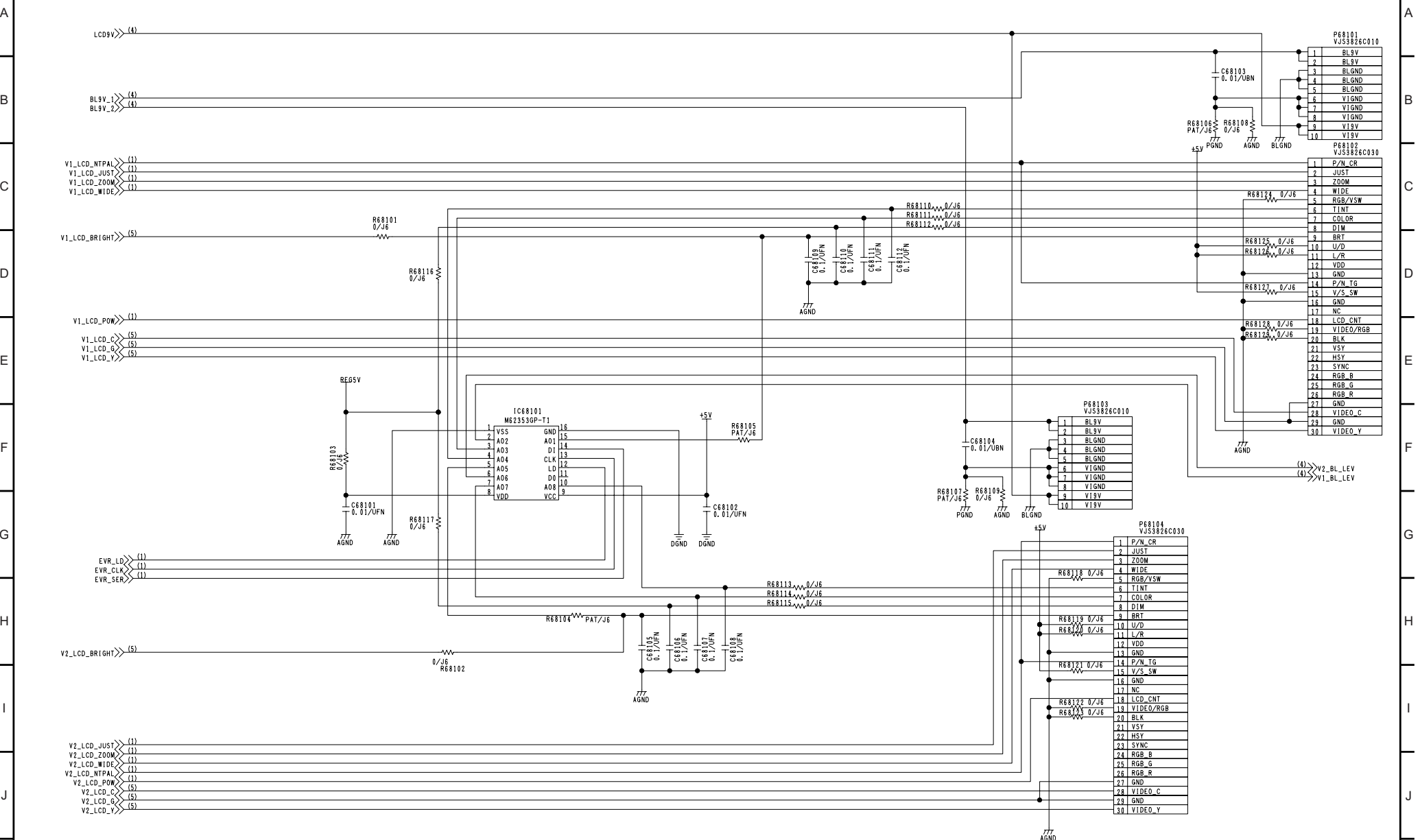






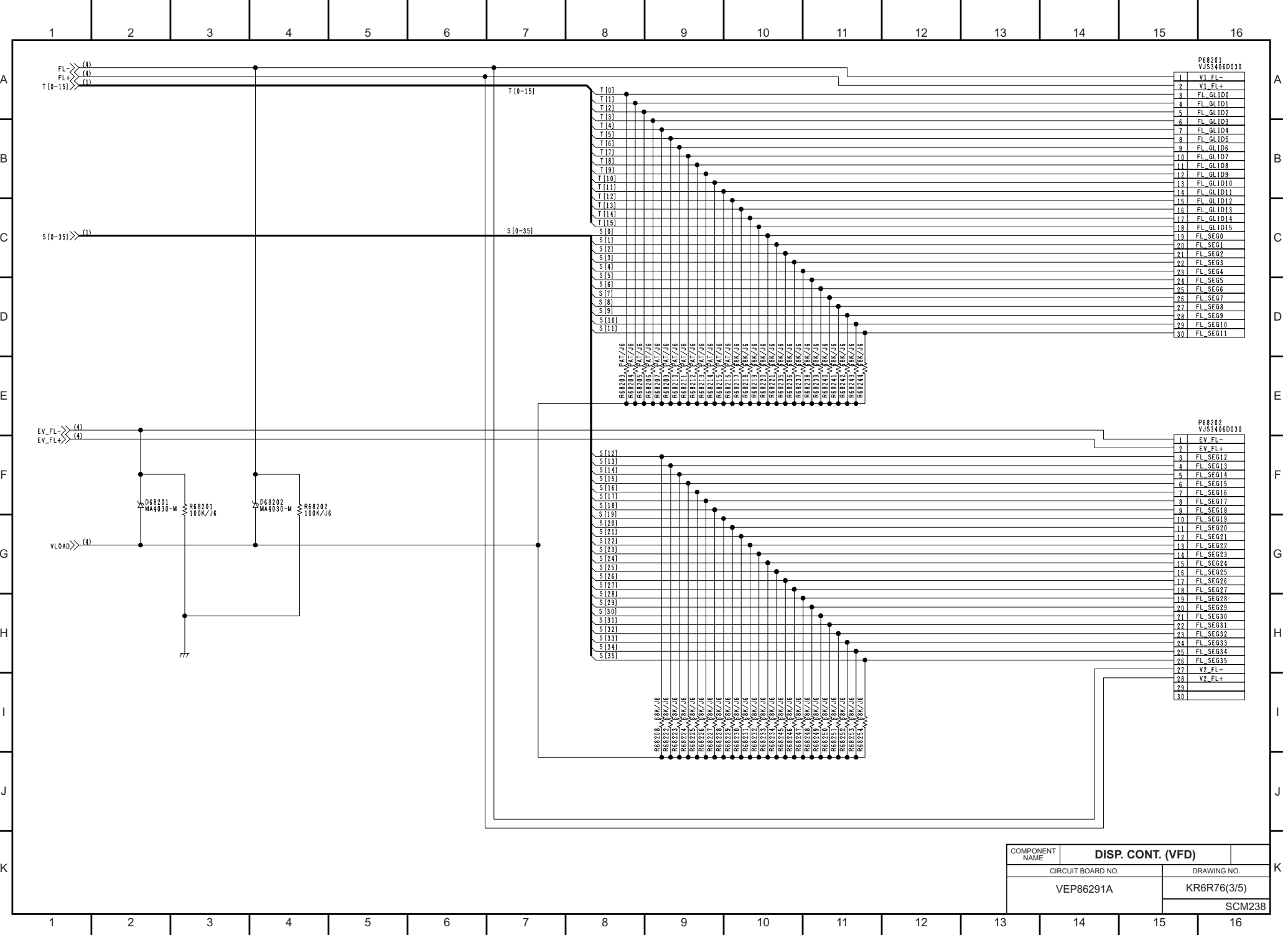
COMPONENT NAME	DISP. CONT. (uCOM)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP6R291A		KR6R76(1/5)
		SCM236





COMPONENT NAME		DISP. CONT. (LCD)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86291A		KR6R76(2/5)	
		SCM237	





P68201 VJ53406D030	
1	V1 FL-
2	V1 FL+
3	FL_GLID0
4	FL_GLID1
5	FL_GLID2
6	FL_GLID3
7	FL_GLID4
8	FL_GLID5
9	FL_GLID6
10	FL_GLID7
11	FL_GLID8
12	FL_GLID9
13	FL_GLID10
14	FL_GLID11
15	FL_GLID12
16	FL_GLID13
17	FL_GLID14
18	FL_GLID15
19	FL_SEG0
20	FL_SEG1
21	FL_SEG2
22	FL_SEG3
23	FL_SEG4
24	FL_SEG5
25	FL_SEG6
26	FL_SEG7
27	FL_SEG8
28	FL_SEG9
29	FL_SEG10
30	FL_SEG11

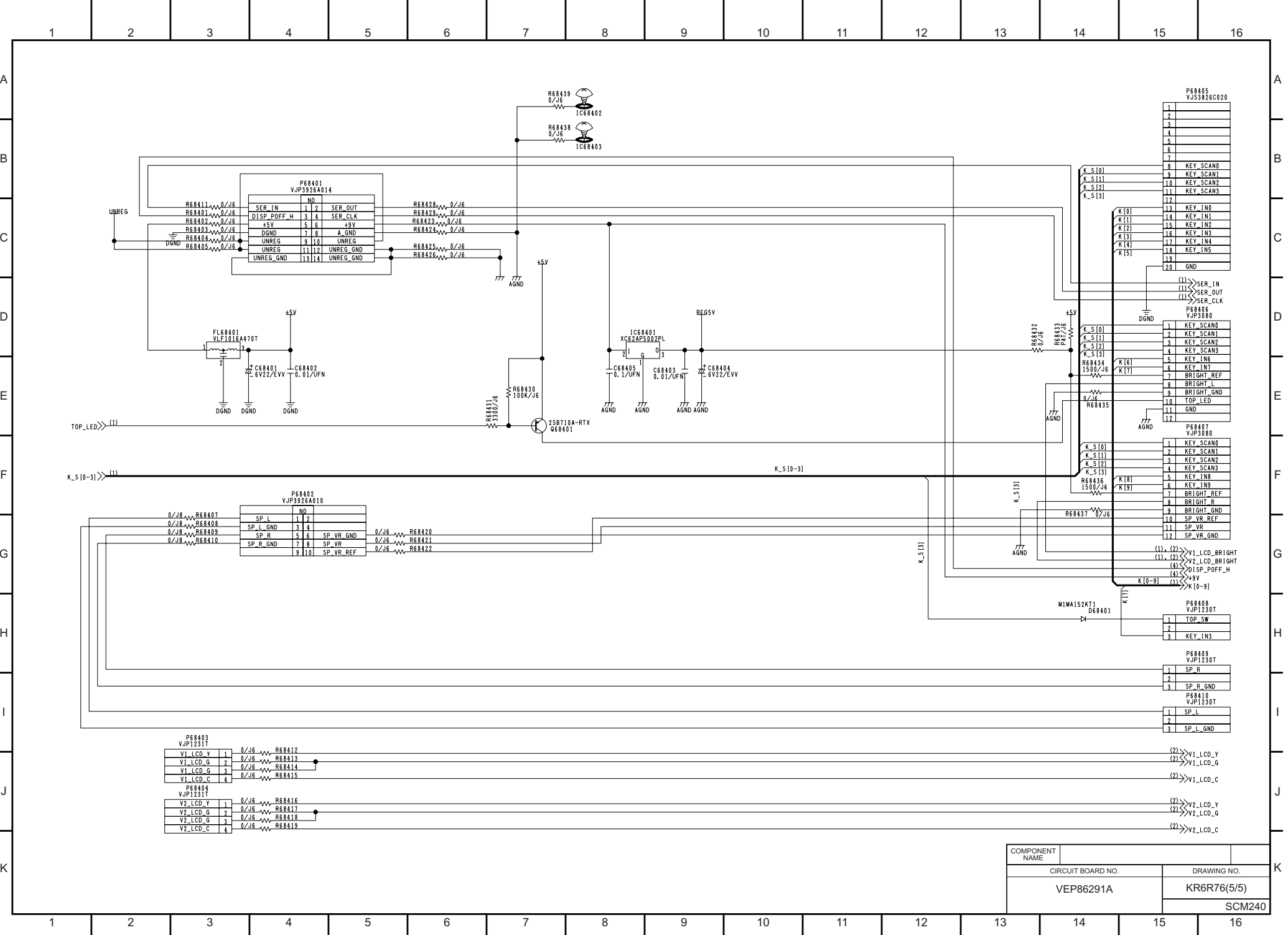
P68202 VJ53406D030	
1	EV FL-
2	EV FL+
3	FL_SEG12
4	FL_SEG13
5	FL_SEG14
6	FL_SEG15
7	FL_SEG16
8	FL_SEG17
9	FL_SEG18
10	FL_SEG19
11	FL_SEG20
12	FL_SEG21
13	FL_SEG22
14	FL_SEG23
15	FL_SEG24
16	FL_SEG25
17	FL_SEG26
18	FL_SEG27
19	FL_SEG28
20	FL_SEG29
21	FL_SEG30
22	FL_SEG31
23	FL_SEG32
24	FL_SEG33
25	FL_SEG34
26	FL_SEG35
27	V2 FL-
28	V2 FL+
29	
30	

COMPONENT NAME		DISP. CONT. (VFD)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86291A		KR6R76(3/5)	
		SCM238	



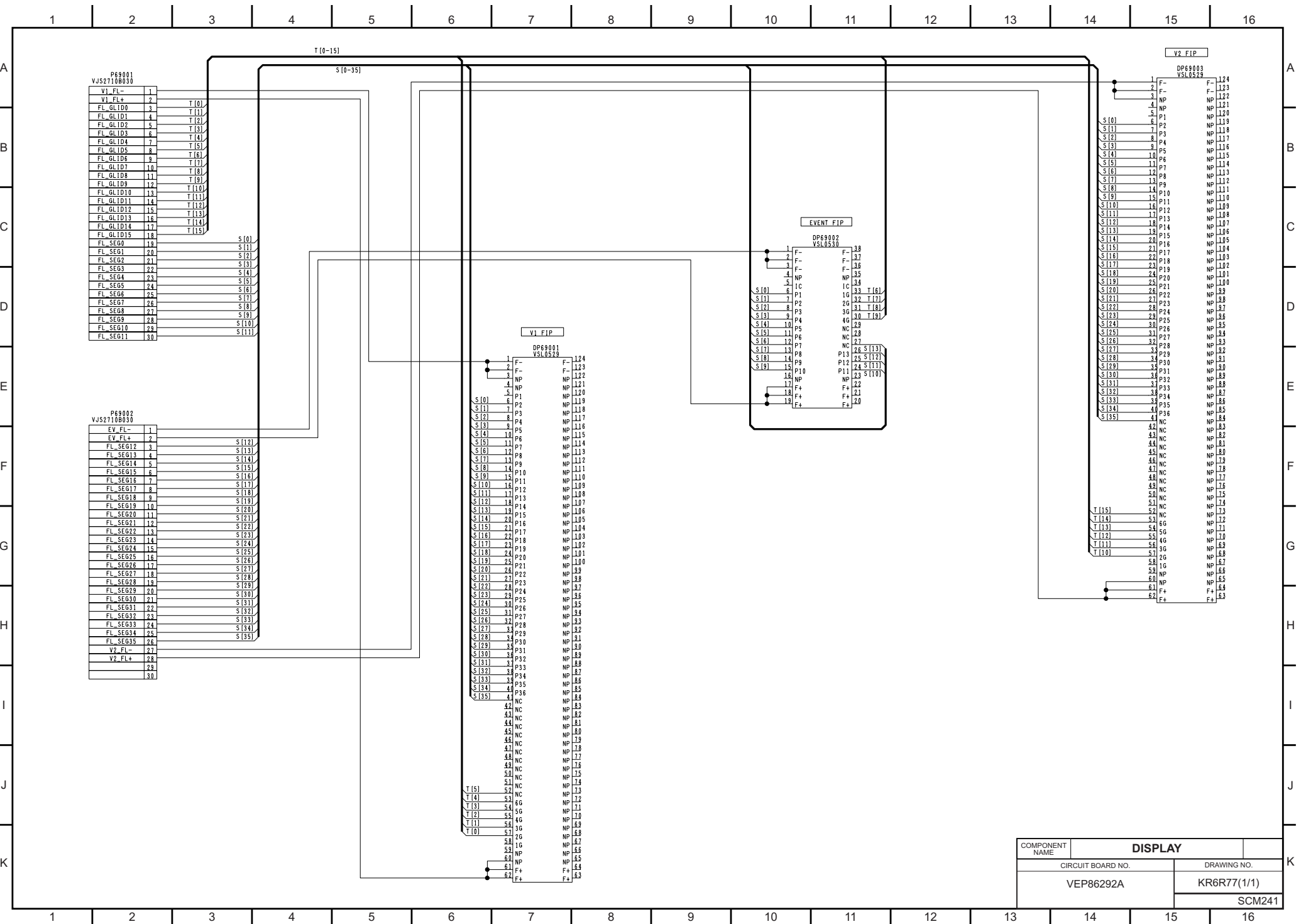






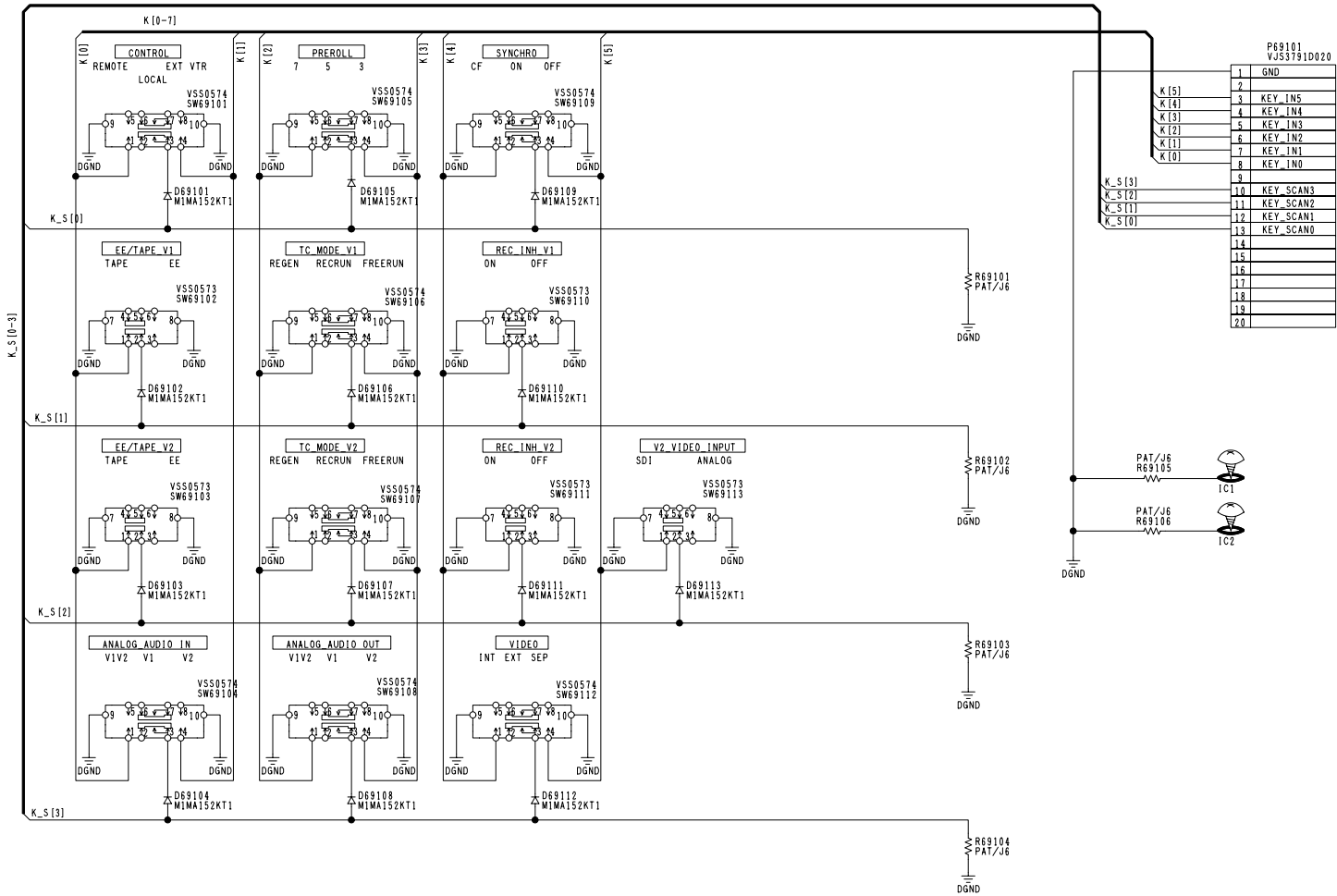
COMPONENT NAME		
CIRCUIT BOARD NO.		DRAWING NO.
VEP6R76(5/5)		KR6R76(5/5)
		SCM240





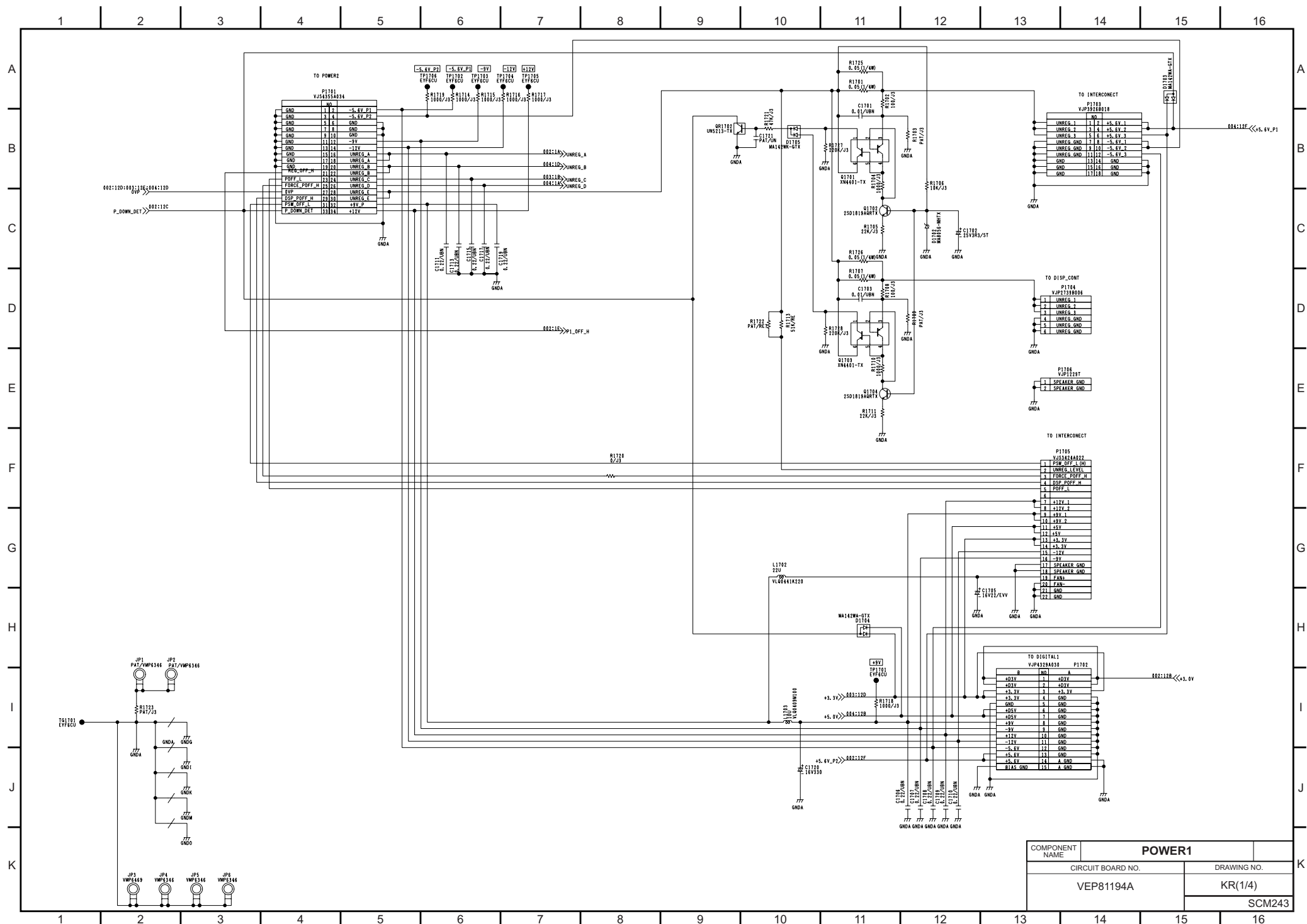
COMPONENT NAME		DISPLAY	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86292A		KR6R77(1/1)	
		SCM241	





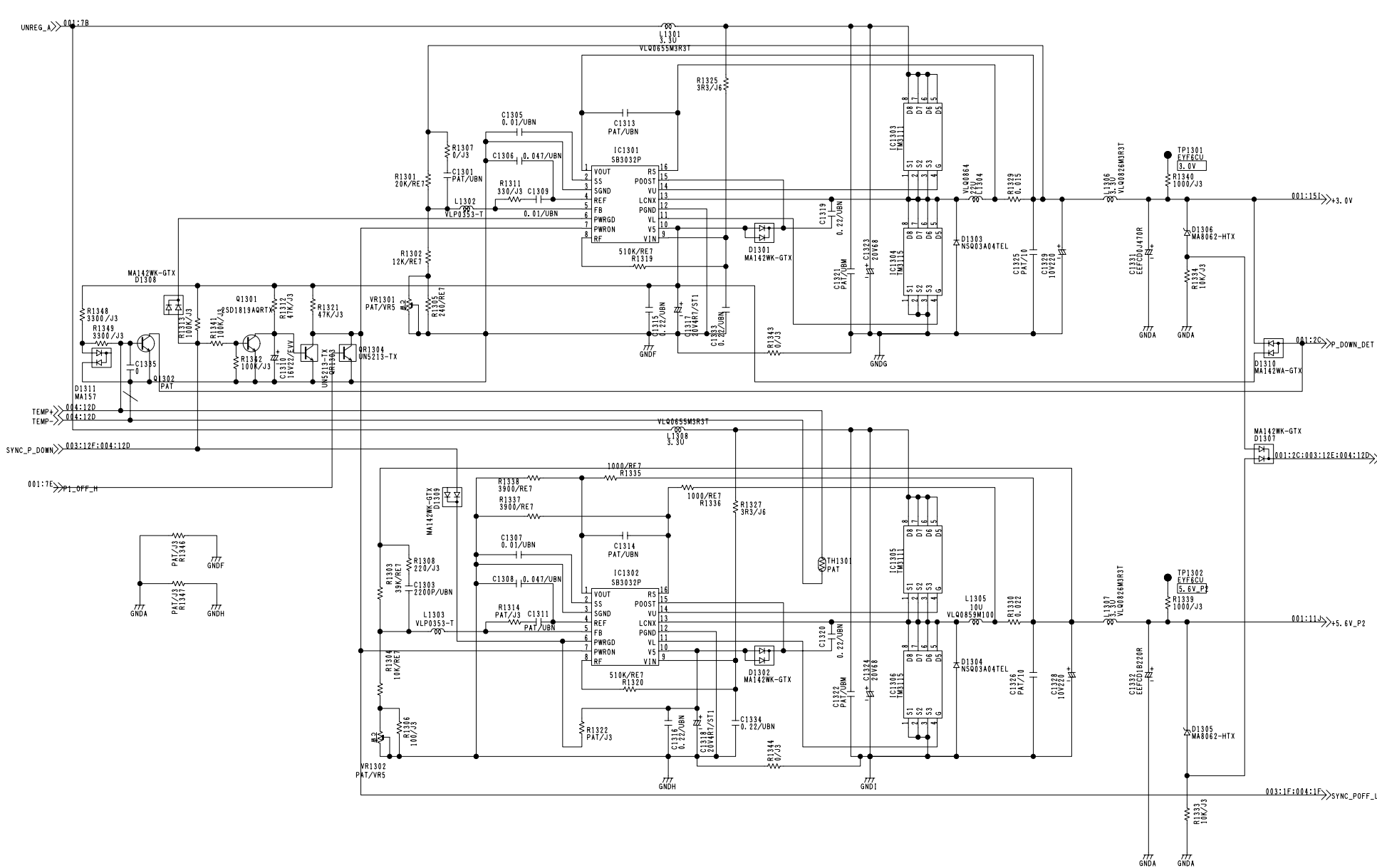
COMPONENT NAME	DISP SW	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B35A		KR0M81(1/1)
		SCM242







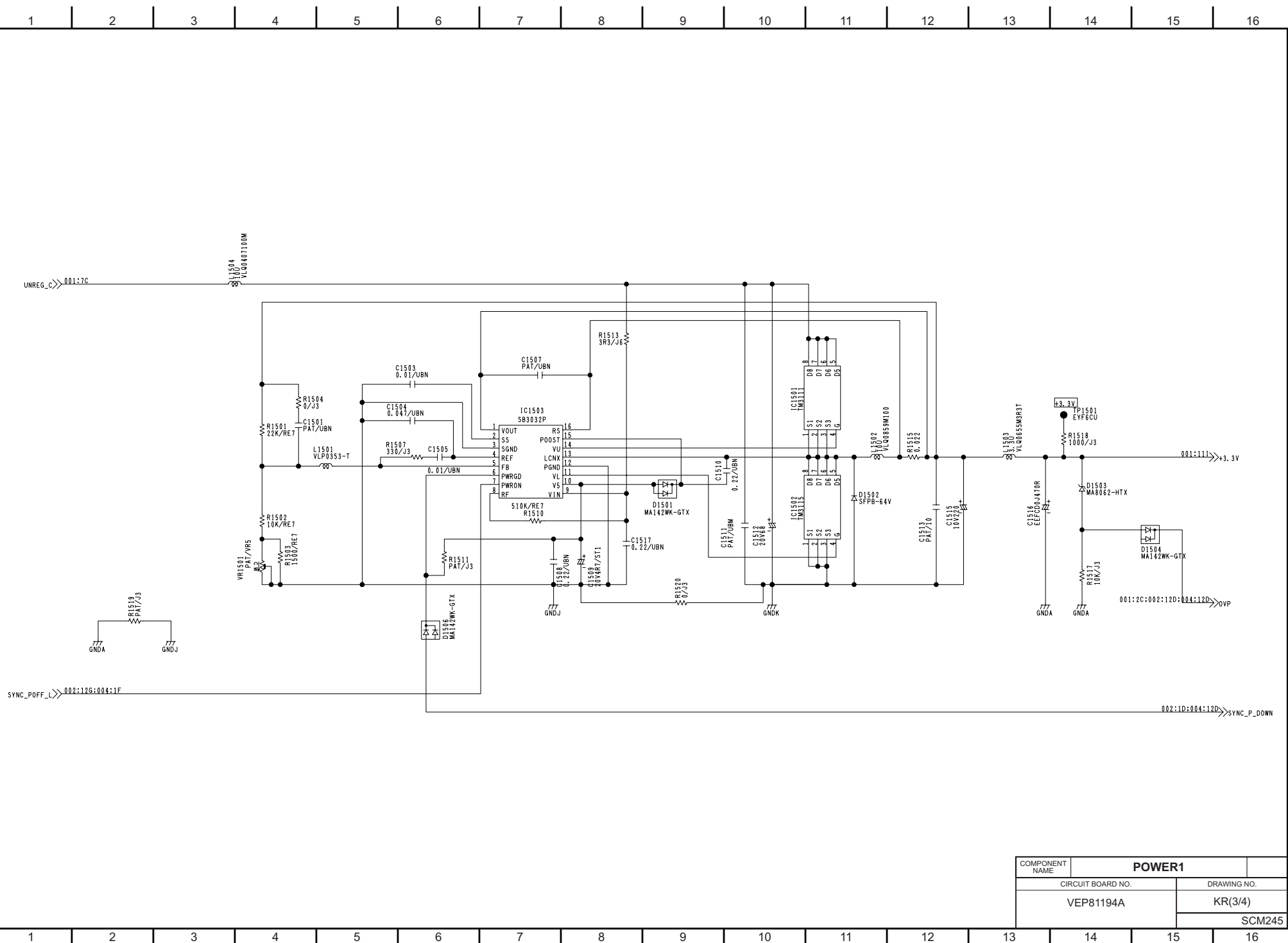
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



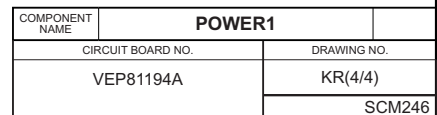
POWER1	
CIRCUIT BOARD NO.	DRAWING NO.
VEP81194A	KR(2/4)
SCM244	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

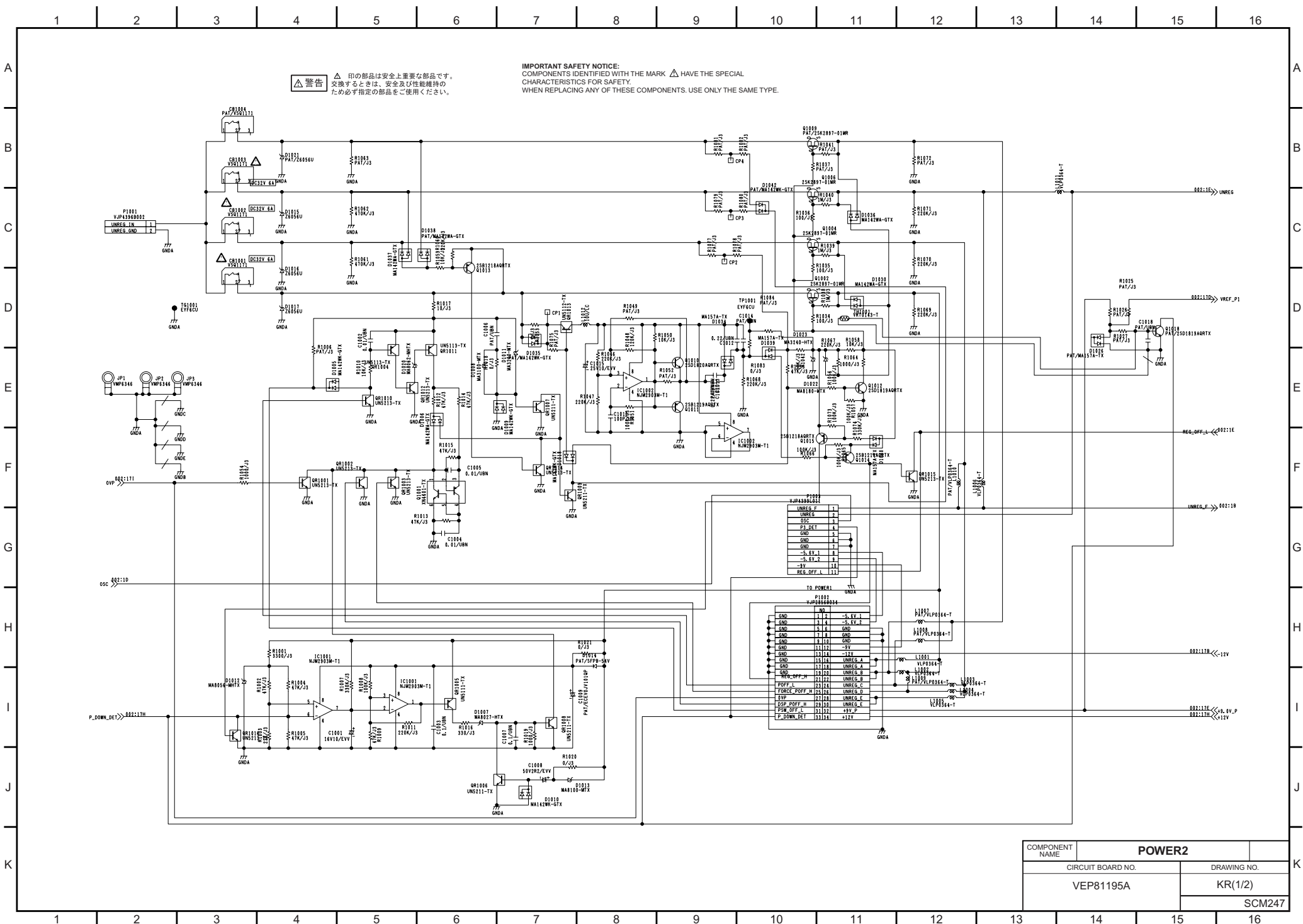






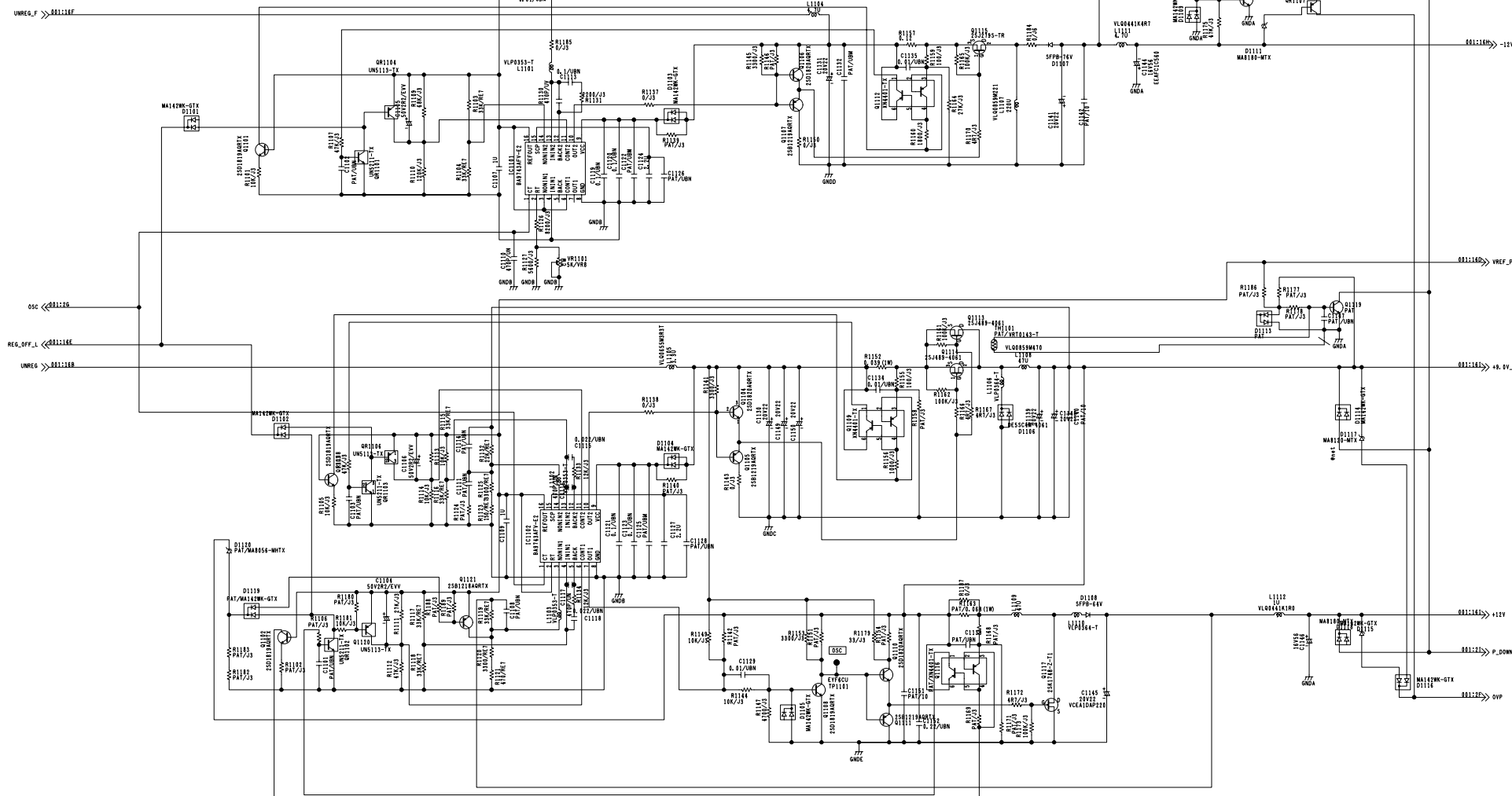








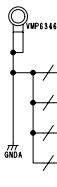
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



COMPONENT NAME	POWER2	
CIRCUIT BOARD NO.	VEP81195A	DRAWING NO.
		KR(2/2)
		SCM248

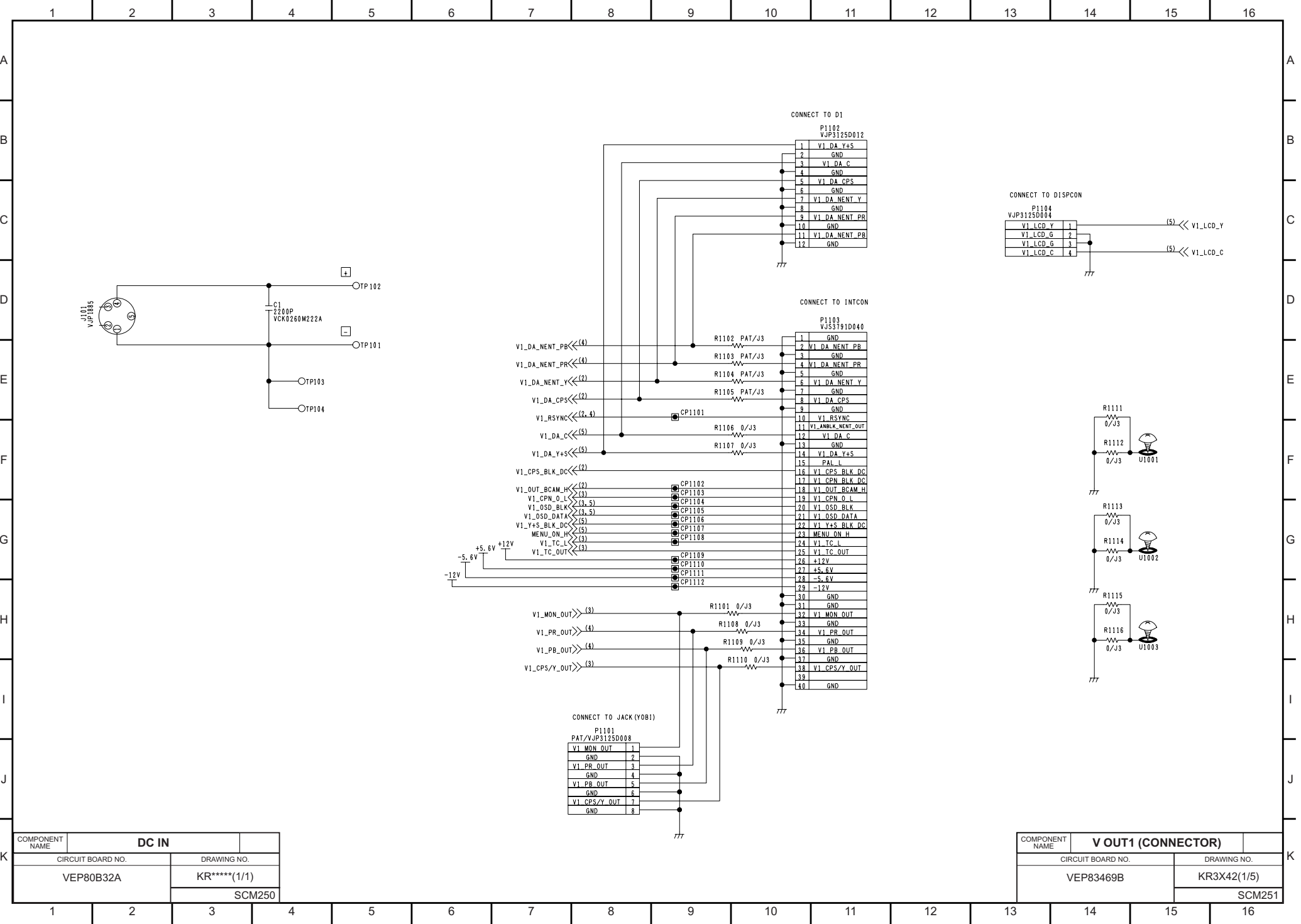
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16





COMPONENT NAME	POWER3		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP81196A		KR(1/1)	
		SCM249	





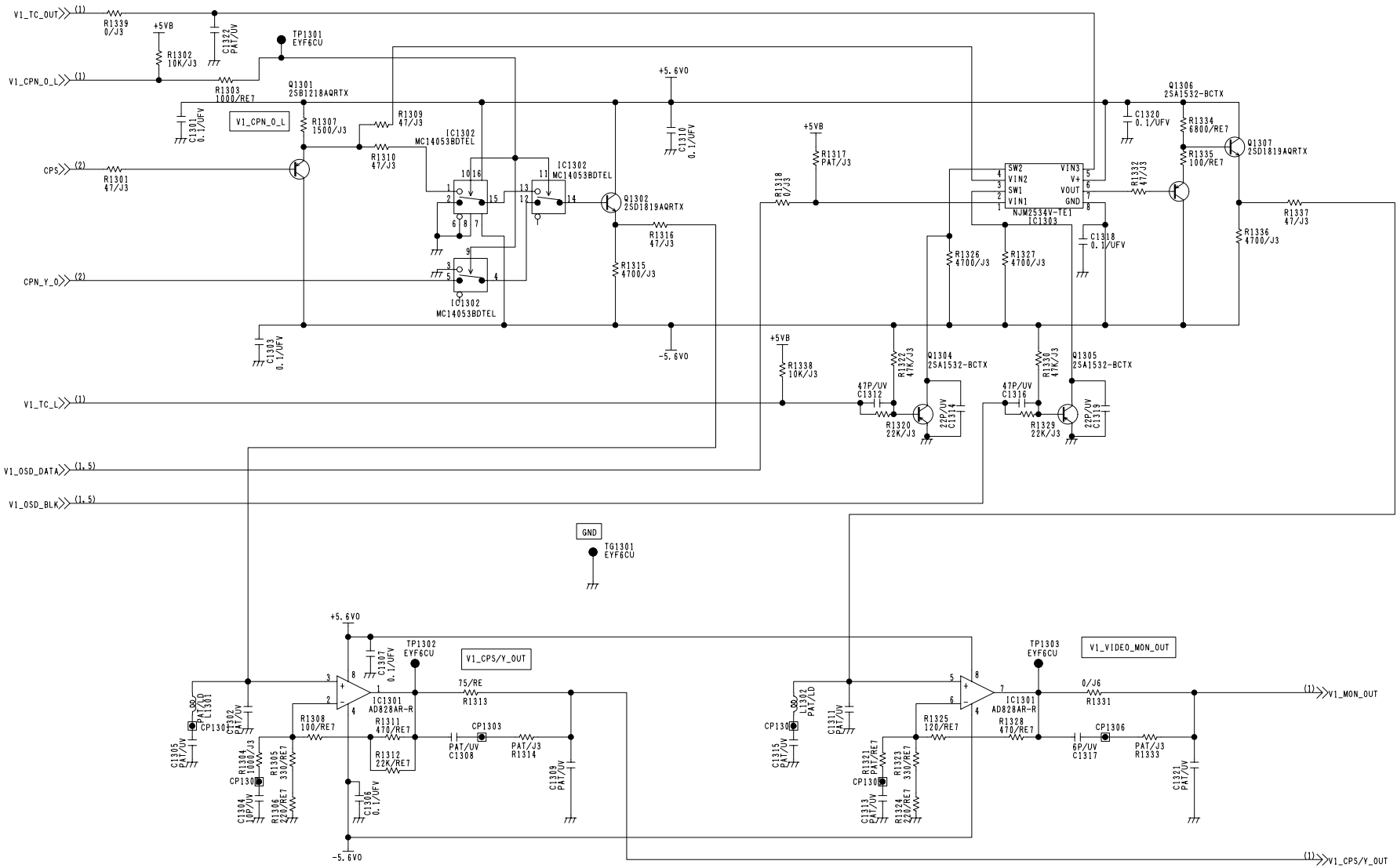
DC IN	
CIRCUIT BOARD NO.	DRAWING NO.
VEP80B32A	KR*****(1/1)
SCM250	

V OUT1 (CONNECTOR)	
CIRCUIT BOARD NO.	DRAWING NO.
VEP83469B	KR3X42(1/5)
SCM251	







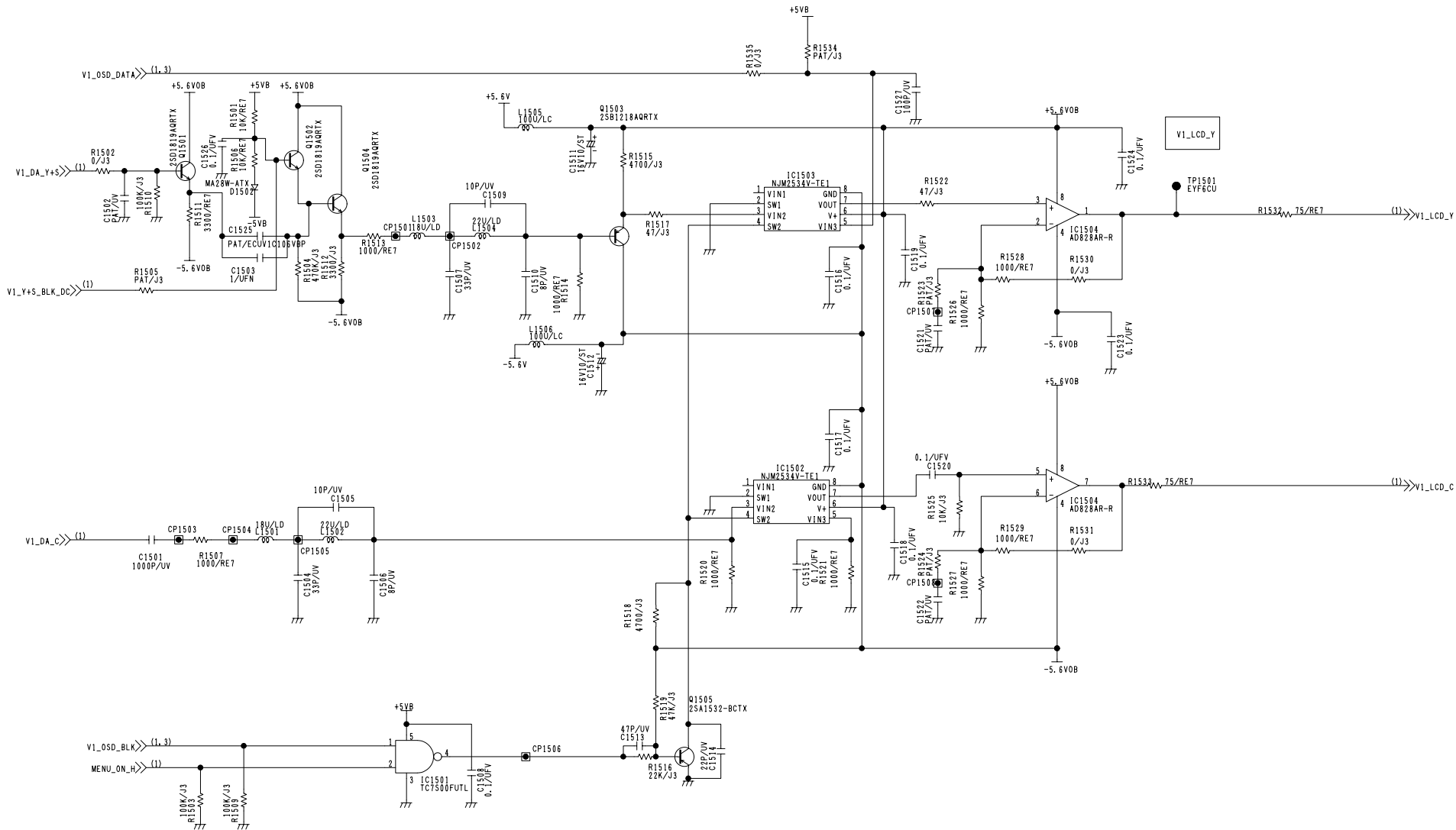


COMPONENT NAME	V OUT1 (VIDEO_BUF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83469B		KR3X42(3/5)
		SCM253



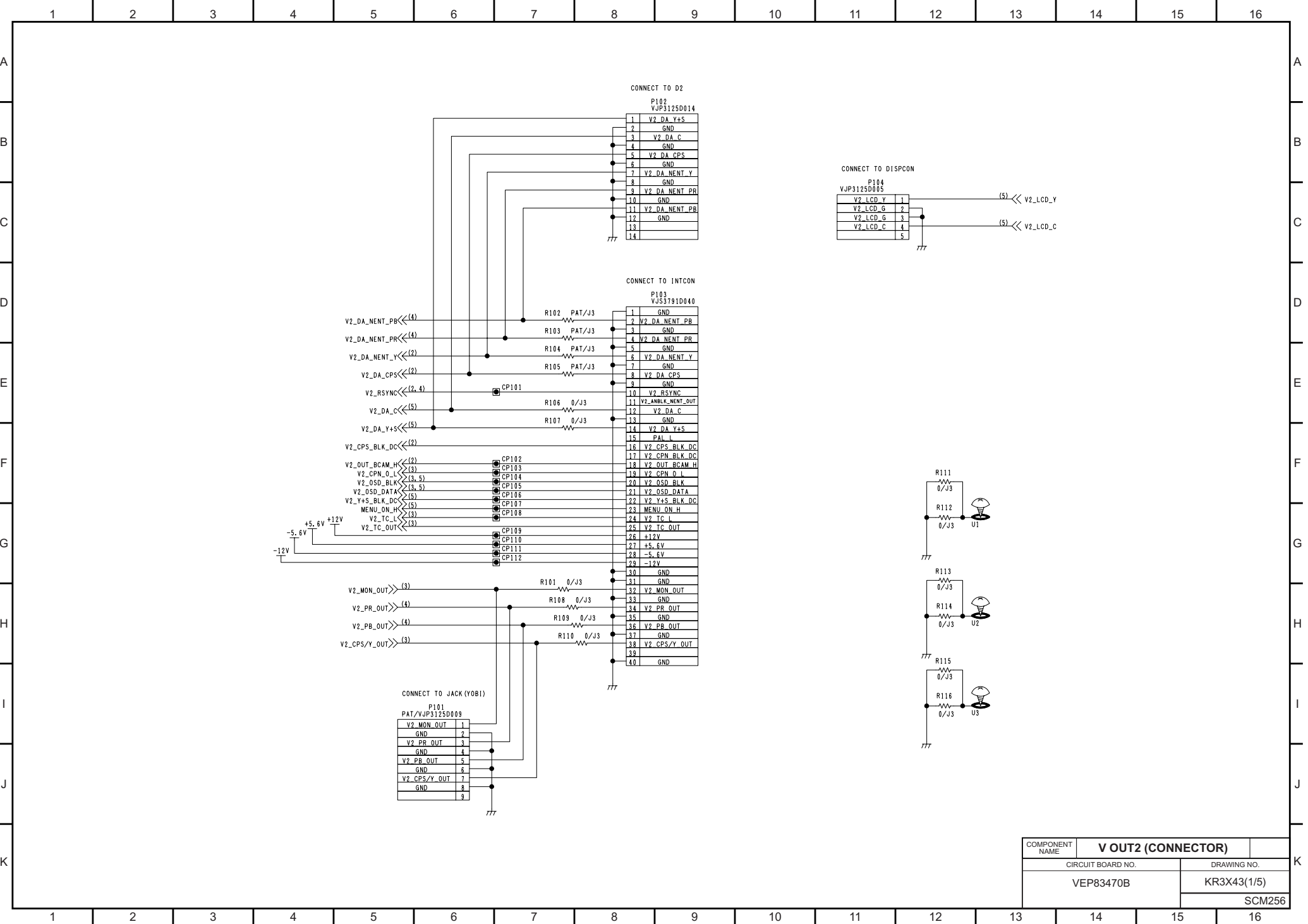






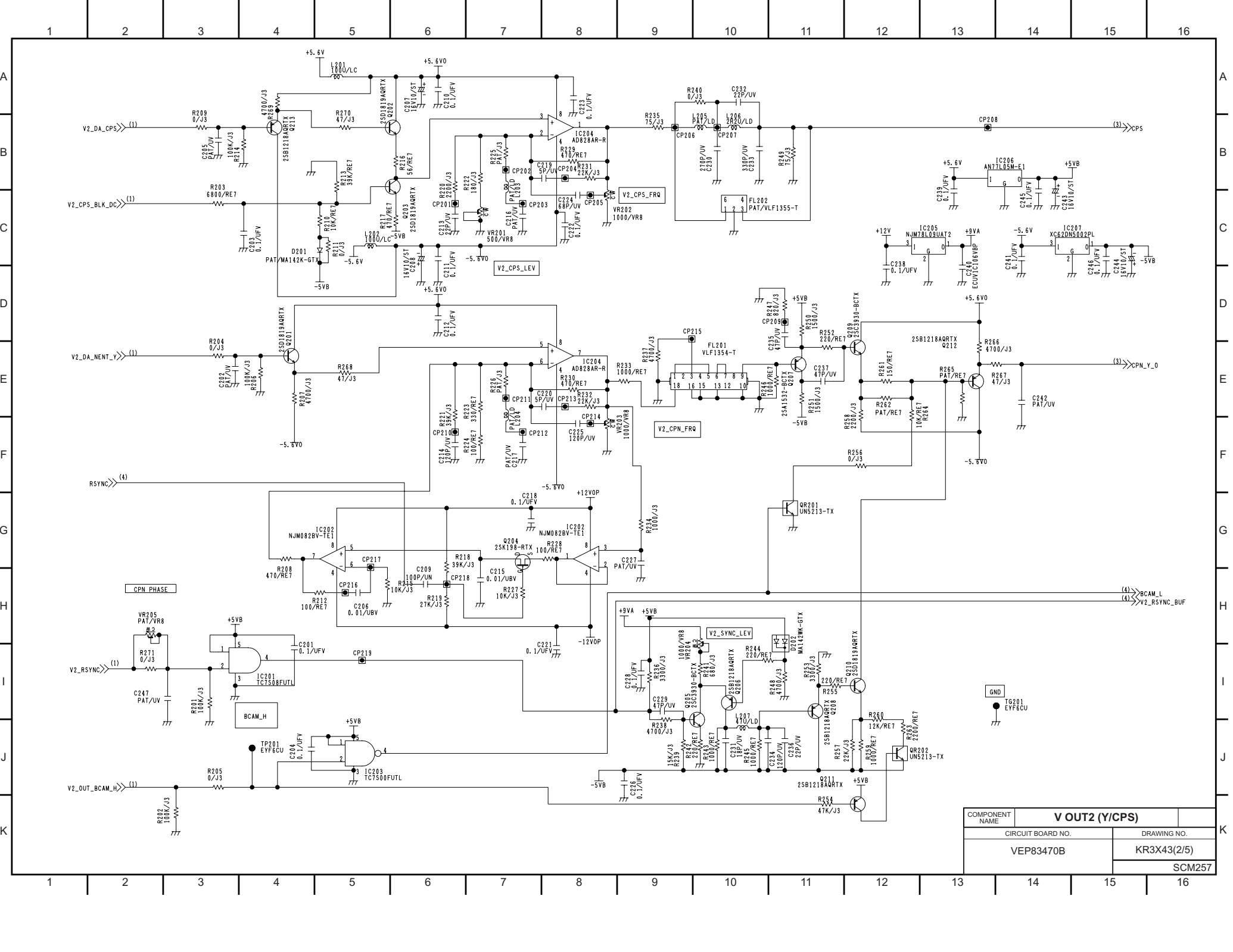
COMPONENT NAME		V OUT1 (LCD_Y/C)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83469B		KR3X42(5/5)	
		SCM255	





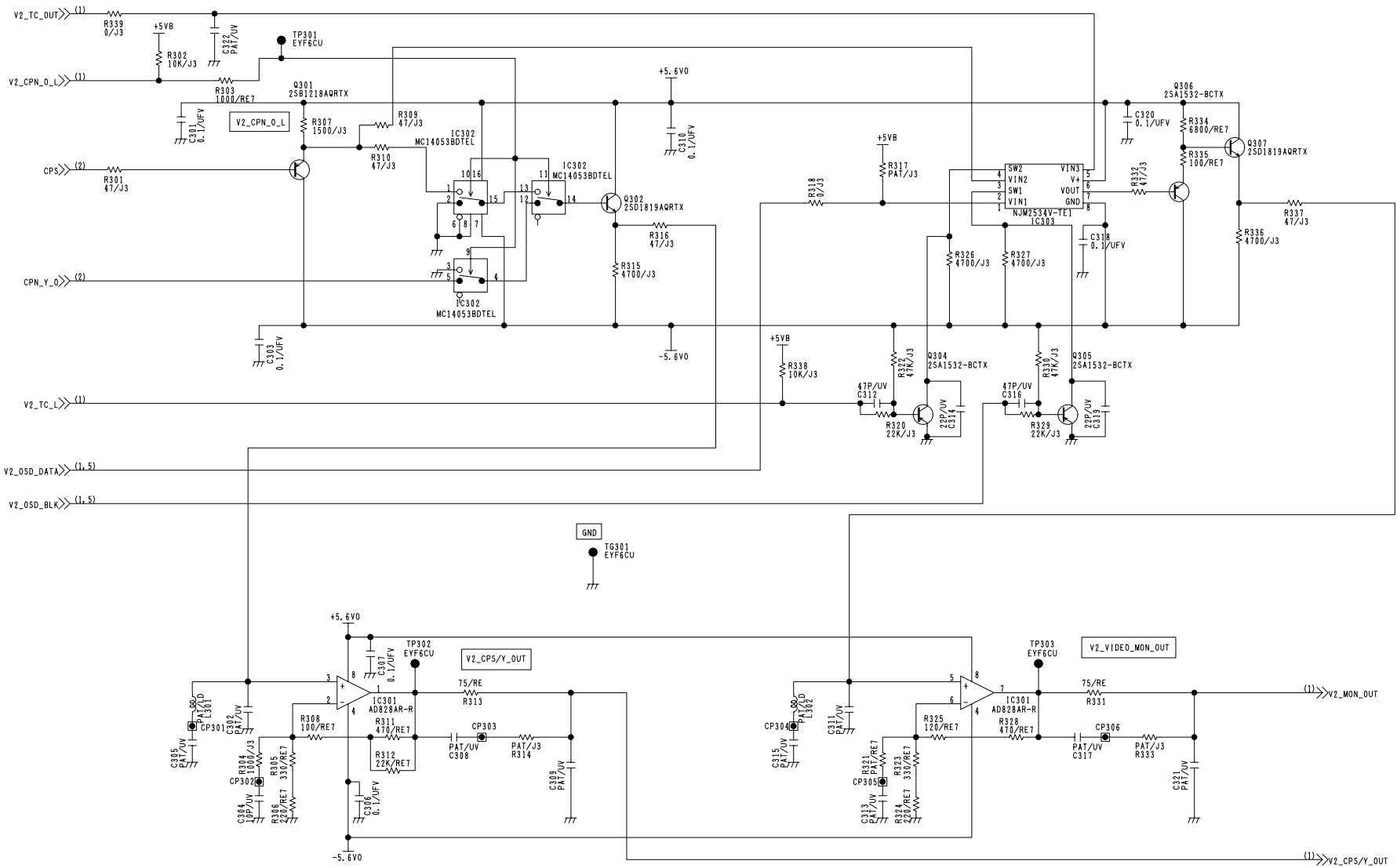
COMPONENT NAME		V OUT2 (CONNECTOR)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83470B		KR3X43(1/5)	
		SCM256	





COMPONENT NAME		V OUT2 (Y/CPS)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83470B		KR3X43(2/5)	
		SCM257	



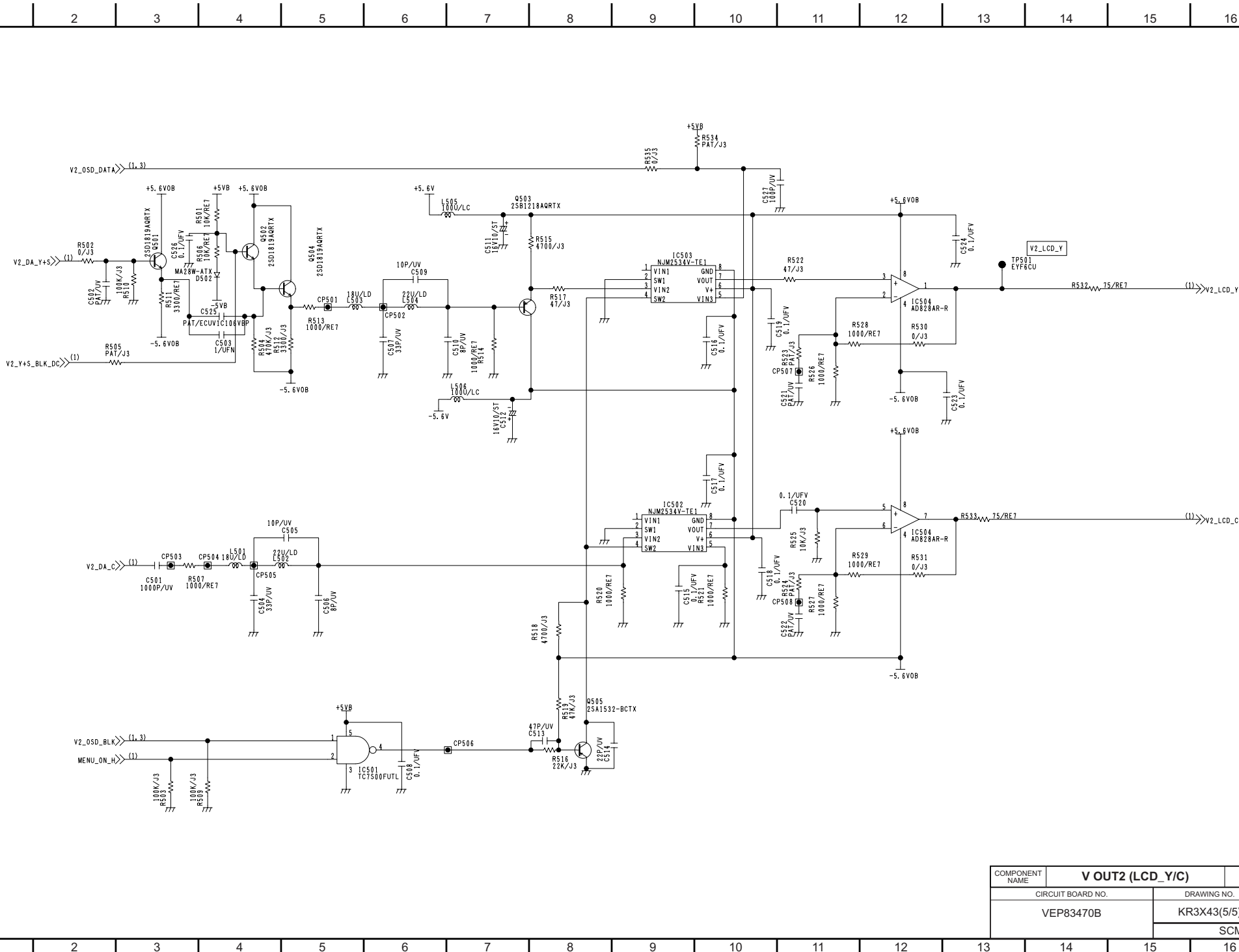


COMPONENT NAME		V OUT2 (VIDEO_BUF)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83470B		KR3X43(3/5)	
		SCM258	

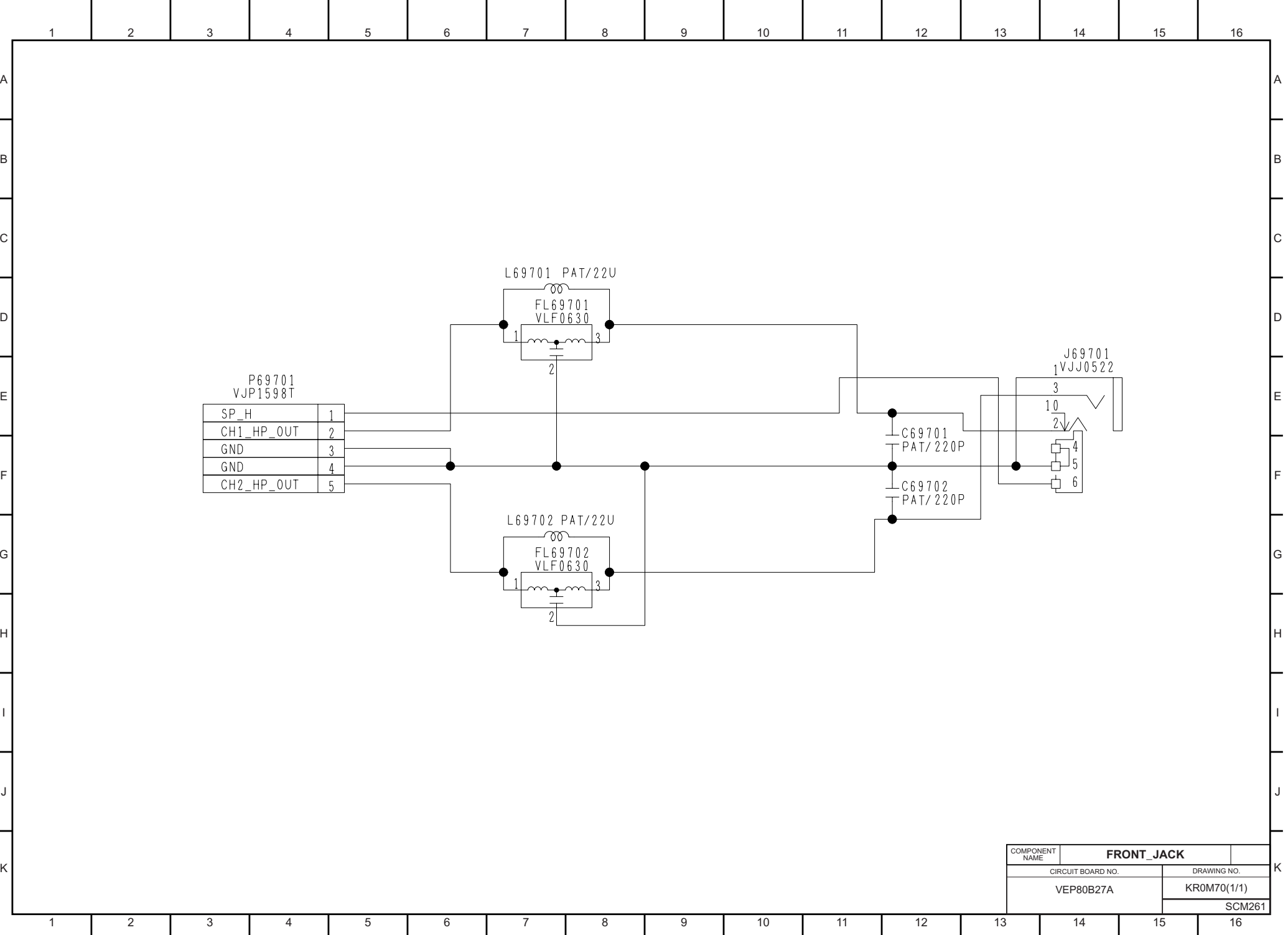






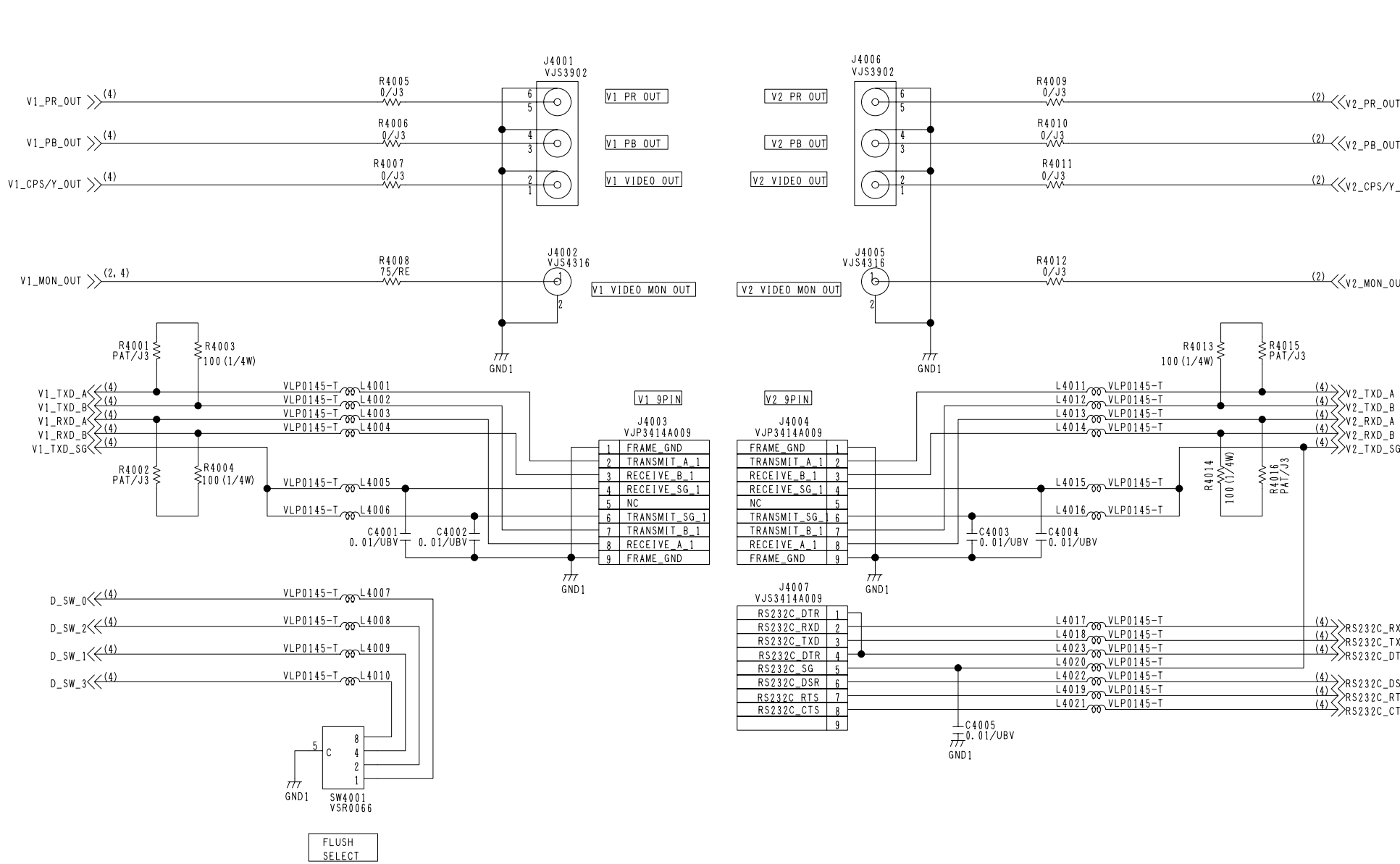








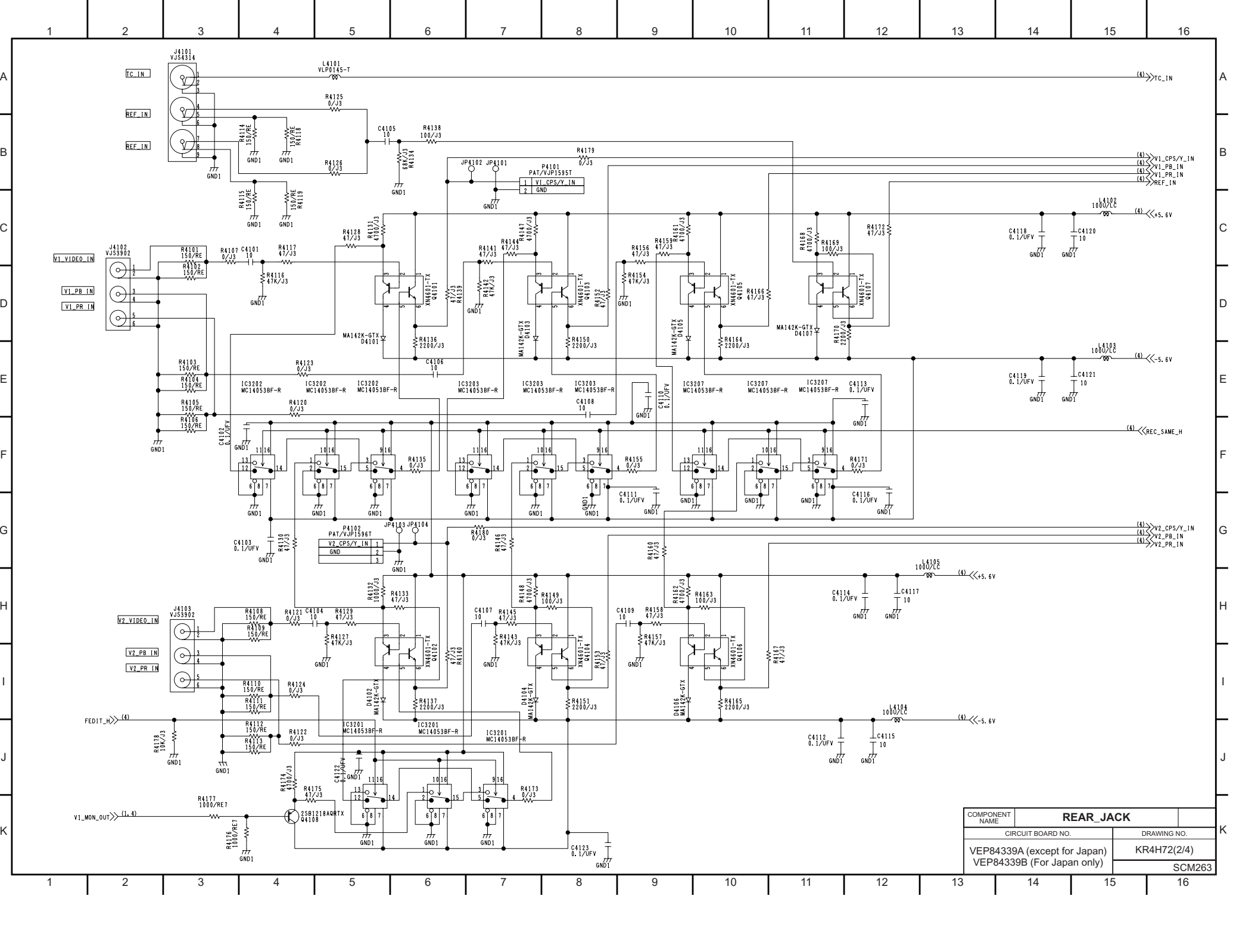
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



COMPONENT NAME	REAR JACK	
	CIRCUIT BOARD NO.	DRAWING NO.
VEP84339A (except for Japan) VEP84339B (For Japan only)		KR4H72(1/4)
		SCM262

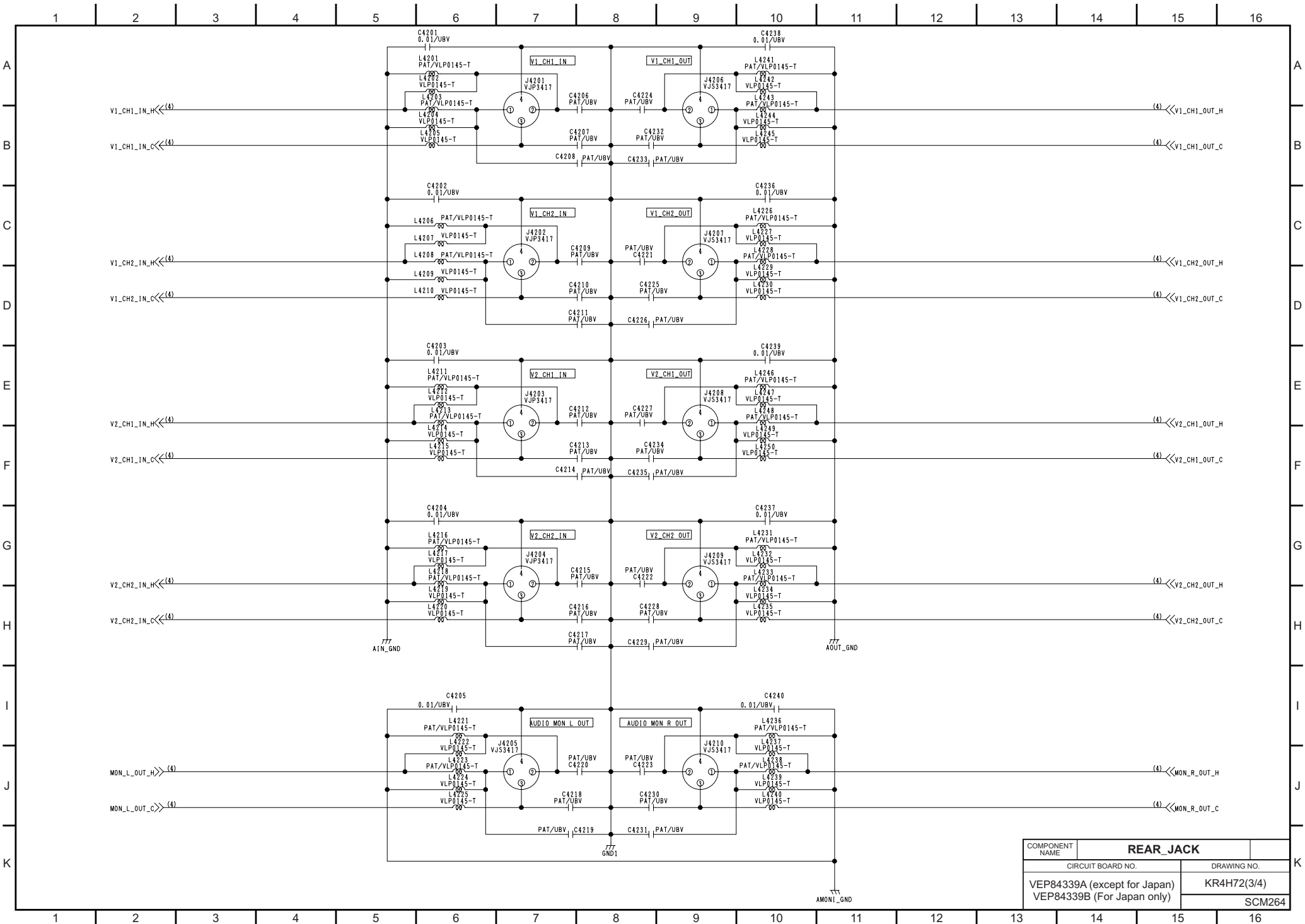
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16





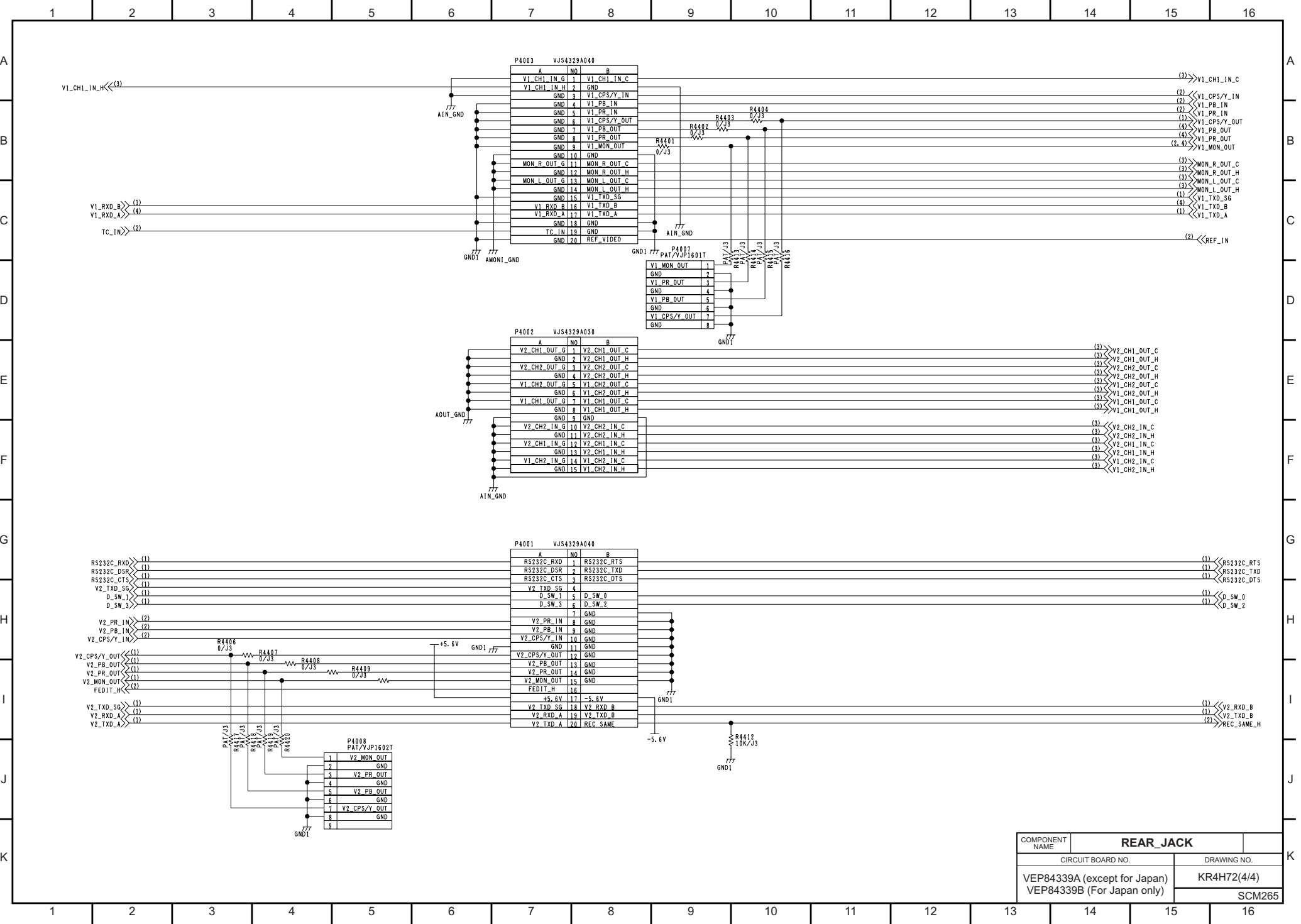
COMPONENT NAME		REAR JACK	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84339A (except for Japan)		KR4H72(2/4)	
VEP84339B (For Japan only)		SCM263	





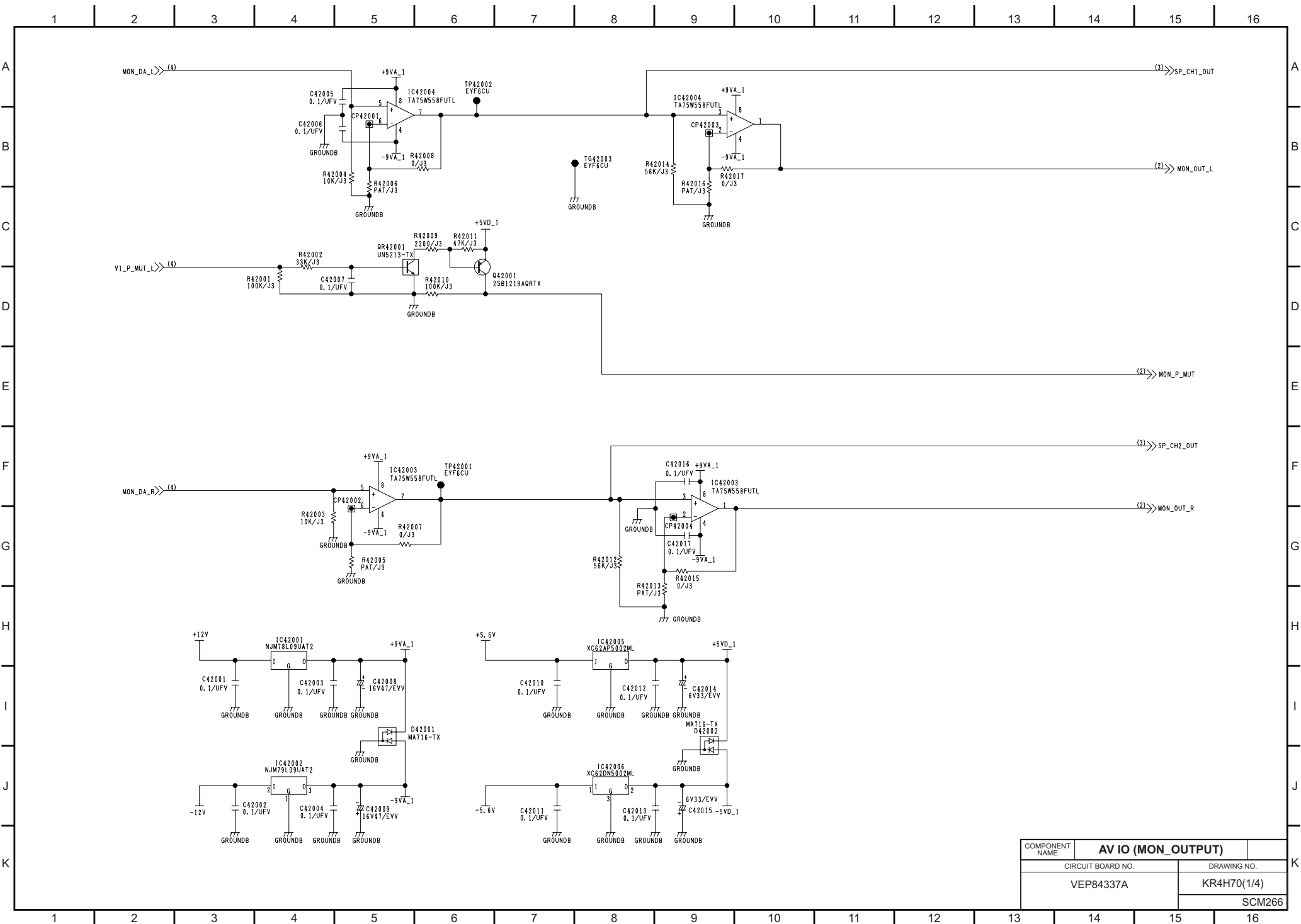
COMPONENT NAME	REAR JACK	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84339A (except for Japan)		KR4H72(3/4)
VEP84339B (For Japan only)		SCM264





COMPONENT NAME	REAR JACK	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84339A (except for Japan)		KR4H72(4/4)
VEP84339B (For Japan only)		SCM265





COMPONENT NAME	AV IO (MON_OUTPUT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84337A		KR4H70(1/4)
SCM266		

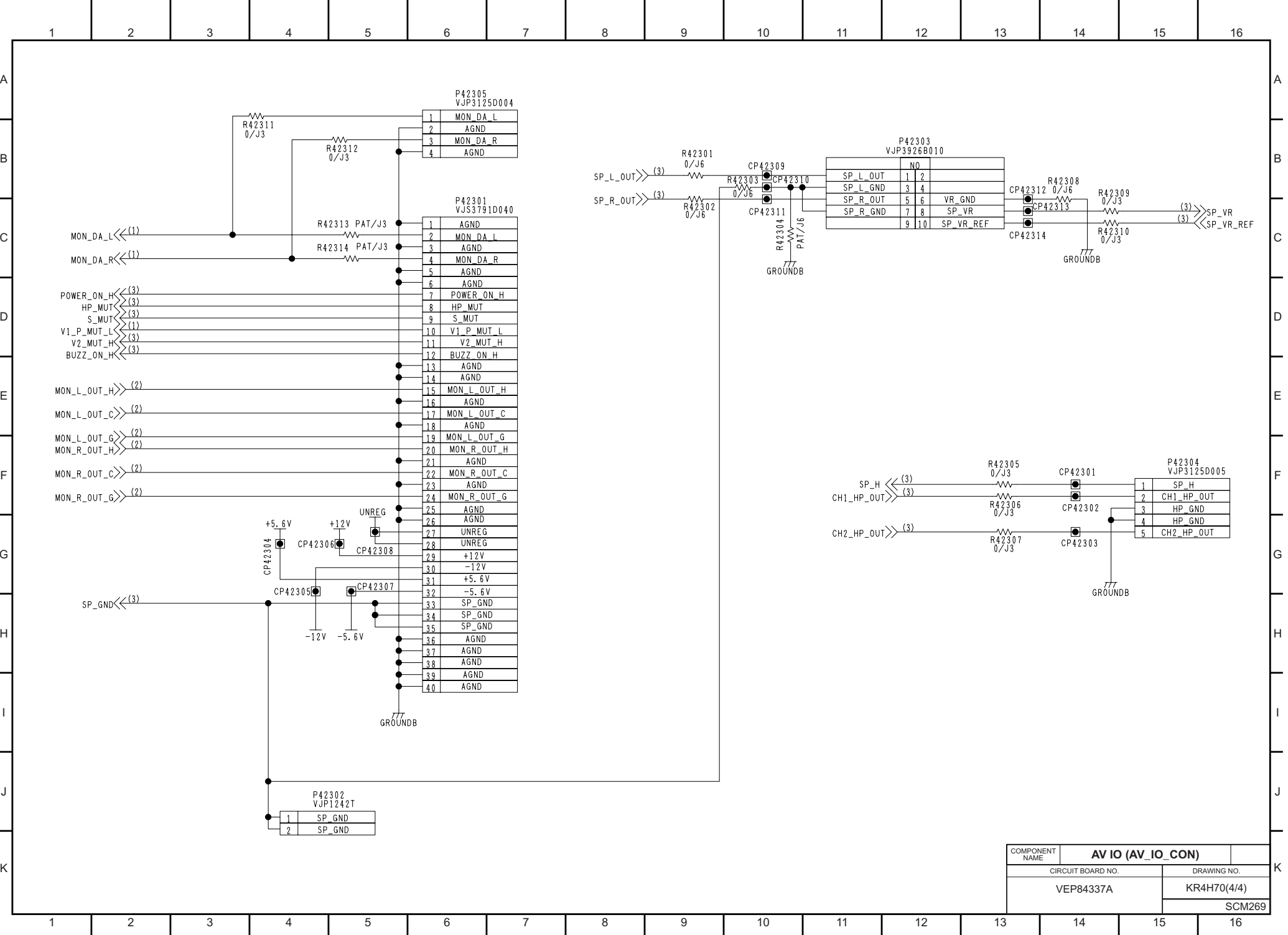






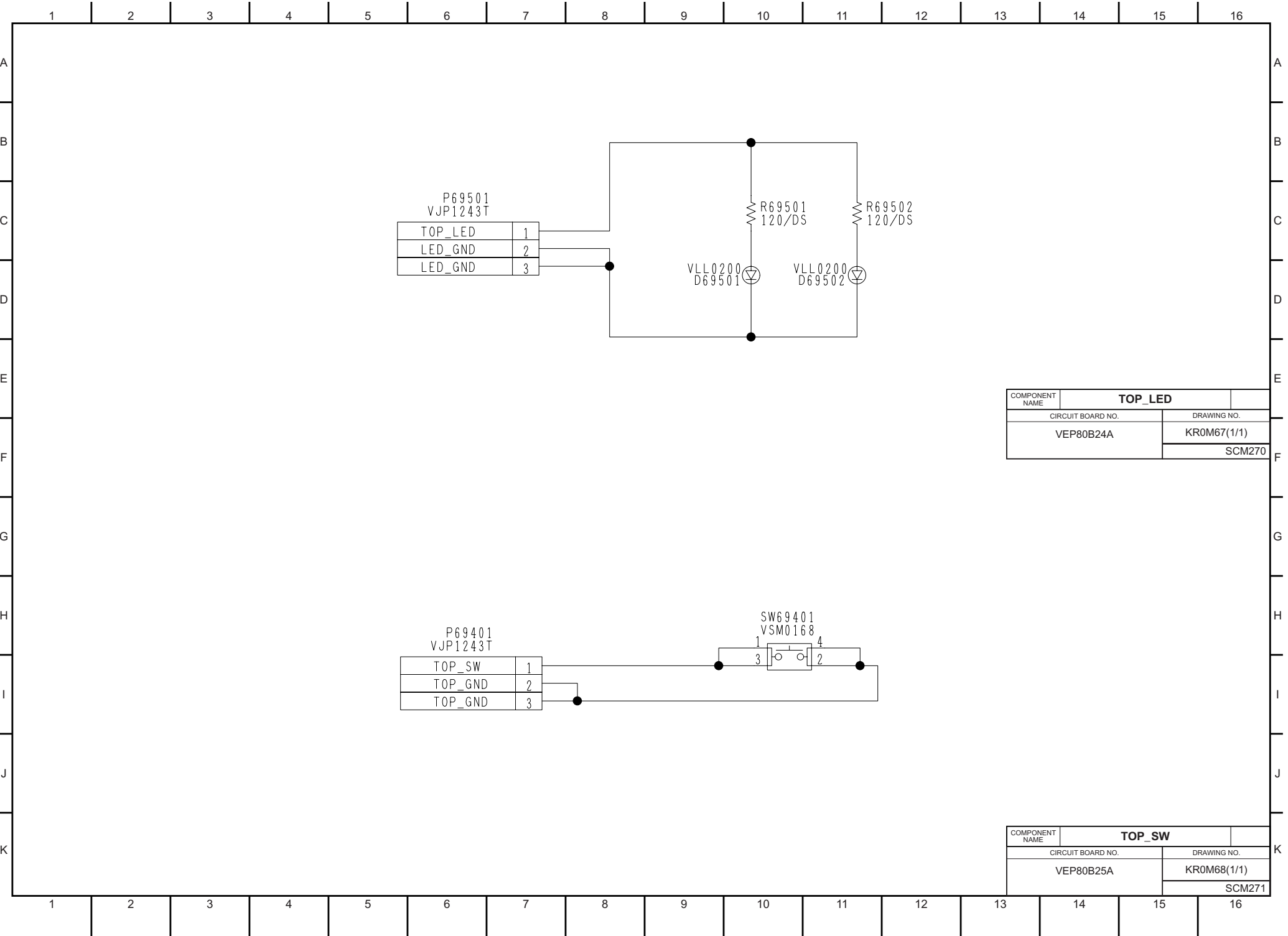






COMPONENT NAME	AV IO (AV_IO_CON)	
	CIRCUIT BOARD NO.	DRAWING NO.
VEP84337A		KR4H70(4/4)
		SCM269





P69501 VJP1243T	
TOP_LED	1
LED_GND	2
LED_GND	3

VLL0200  
D69501

VLL0200  
D69502

R69501  
120/DS

R69502  
120/DS

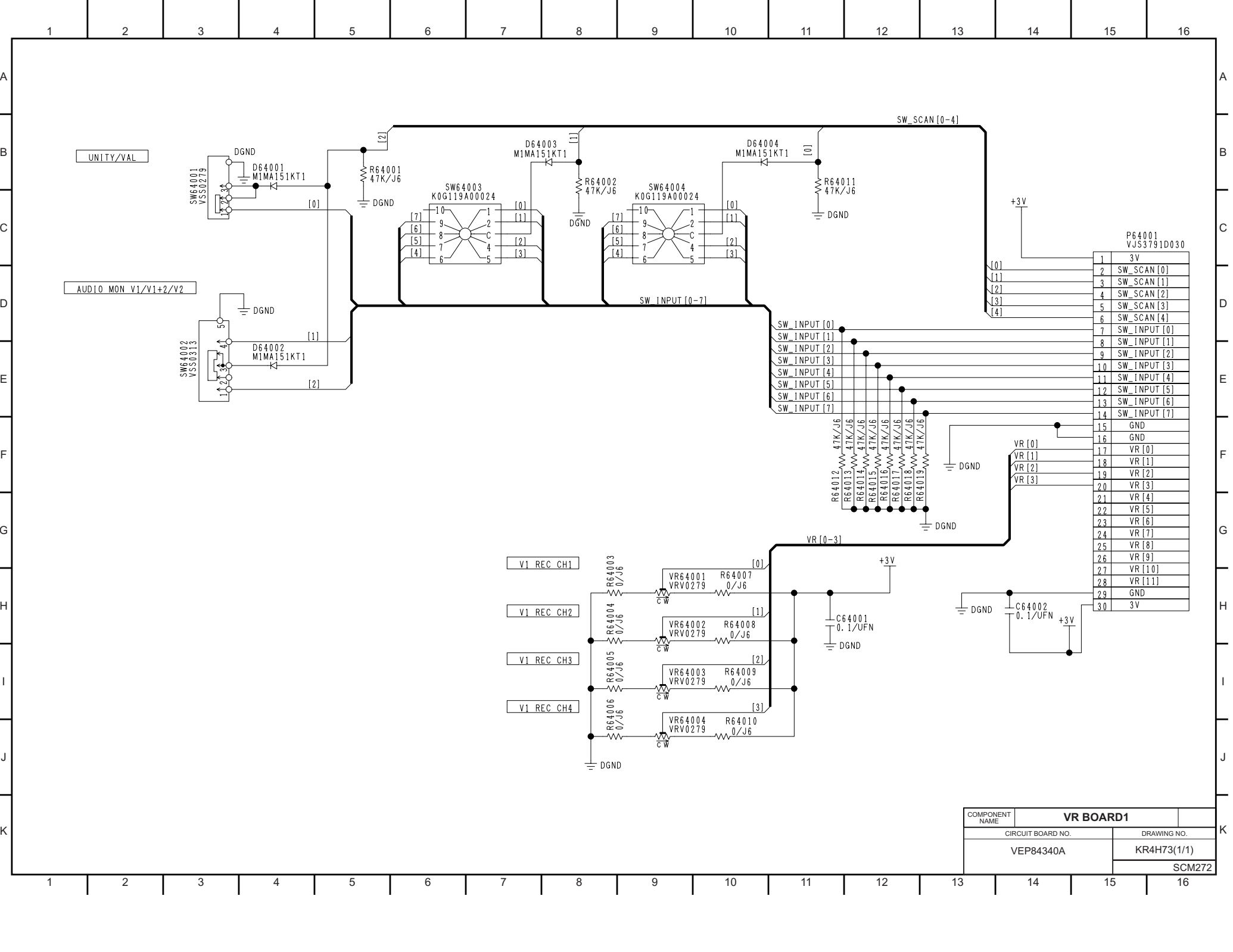
COMPONENT NAME	TOP_LED	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B24A		KR0M67(1/1)
		SCM270

P69401 VJP1243T	
TOP_SW	1
TOP_GND	2
TOP_GND	3

SW69401  
VSM0168

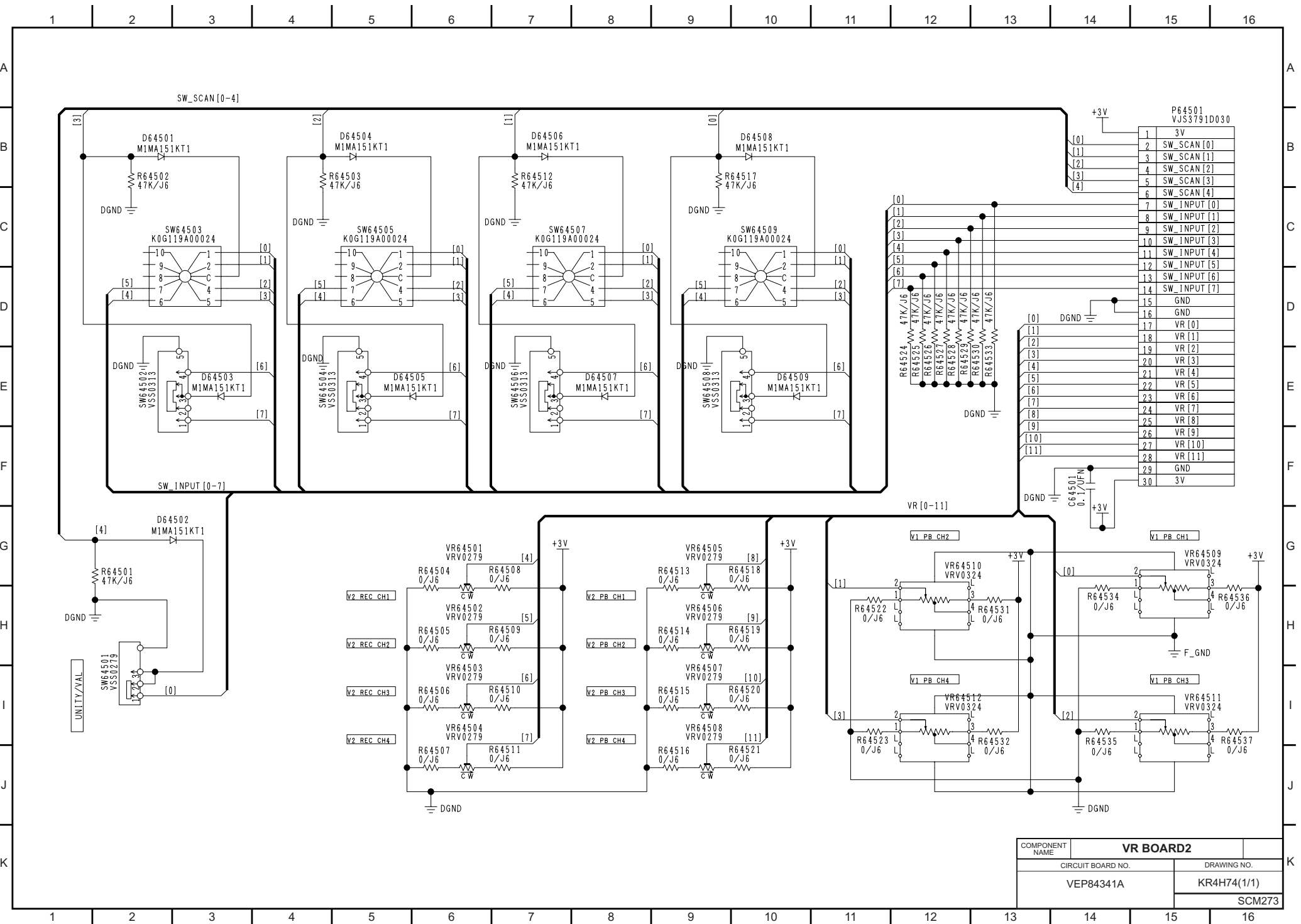
COMPONENT NAME	TOP_SW	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B25A		KR0M68(1/1)
		SCM271





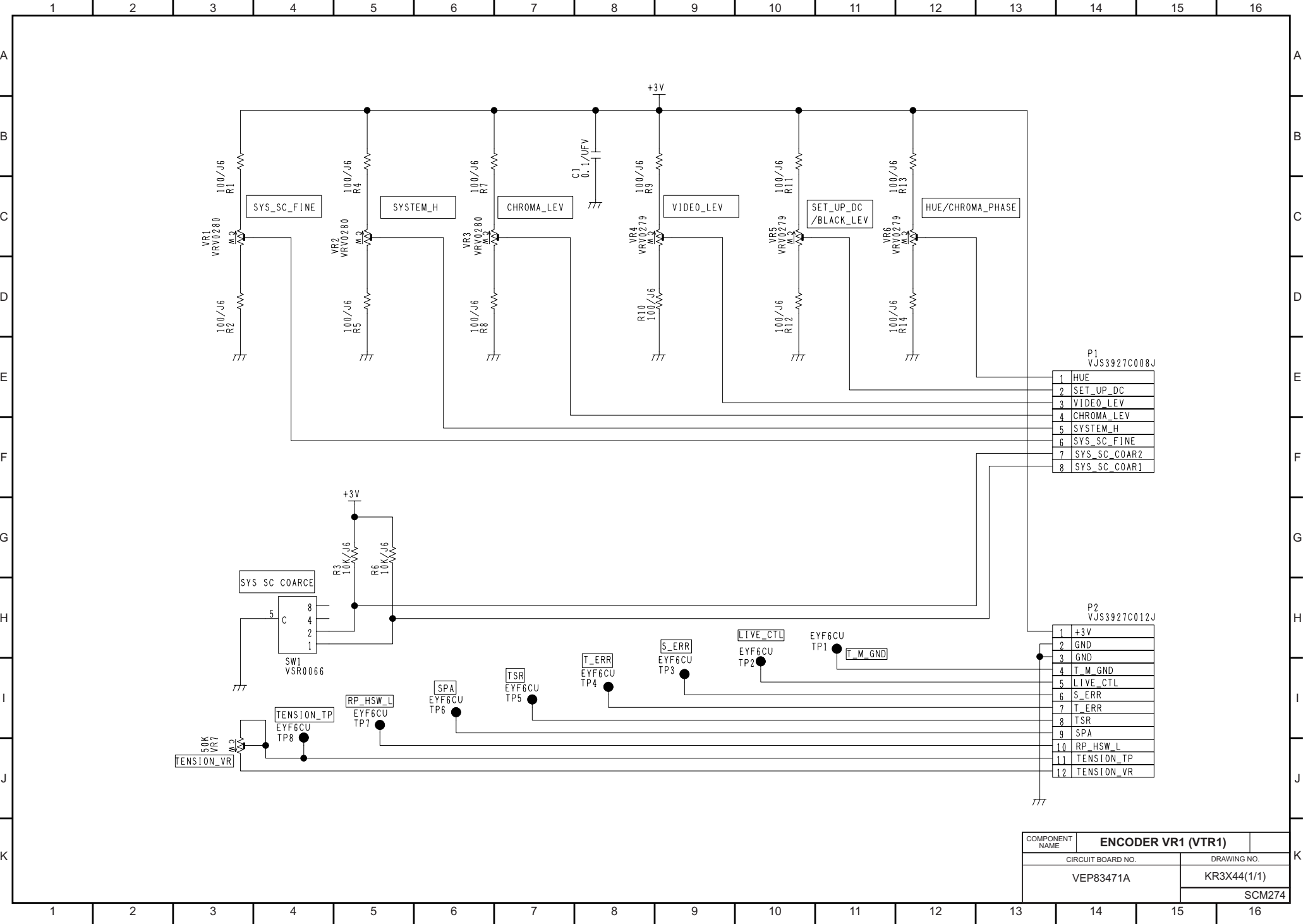
COMPONENT NAME	VR BOARD1	
	CIRCUIT BOARD NO.	DRAWING NO.
VEP84340A		KR4H73(1/1)
SCM272		



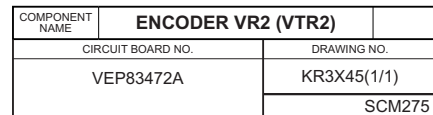


VR BOARD2	
CIRCUIT BOARD NO.	DRAWING NO.
VEP84341A	KR4H74(1/1)
SCM273	



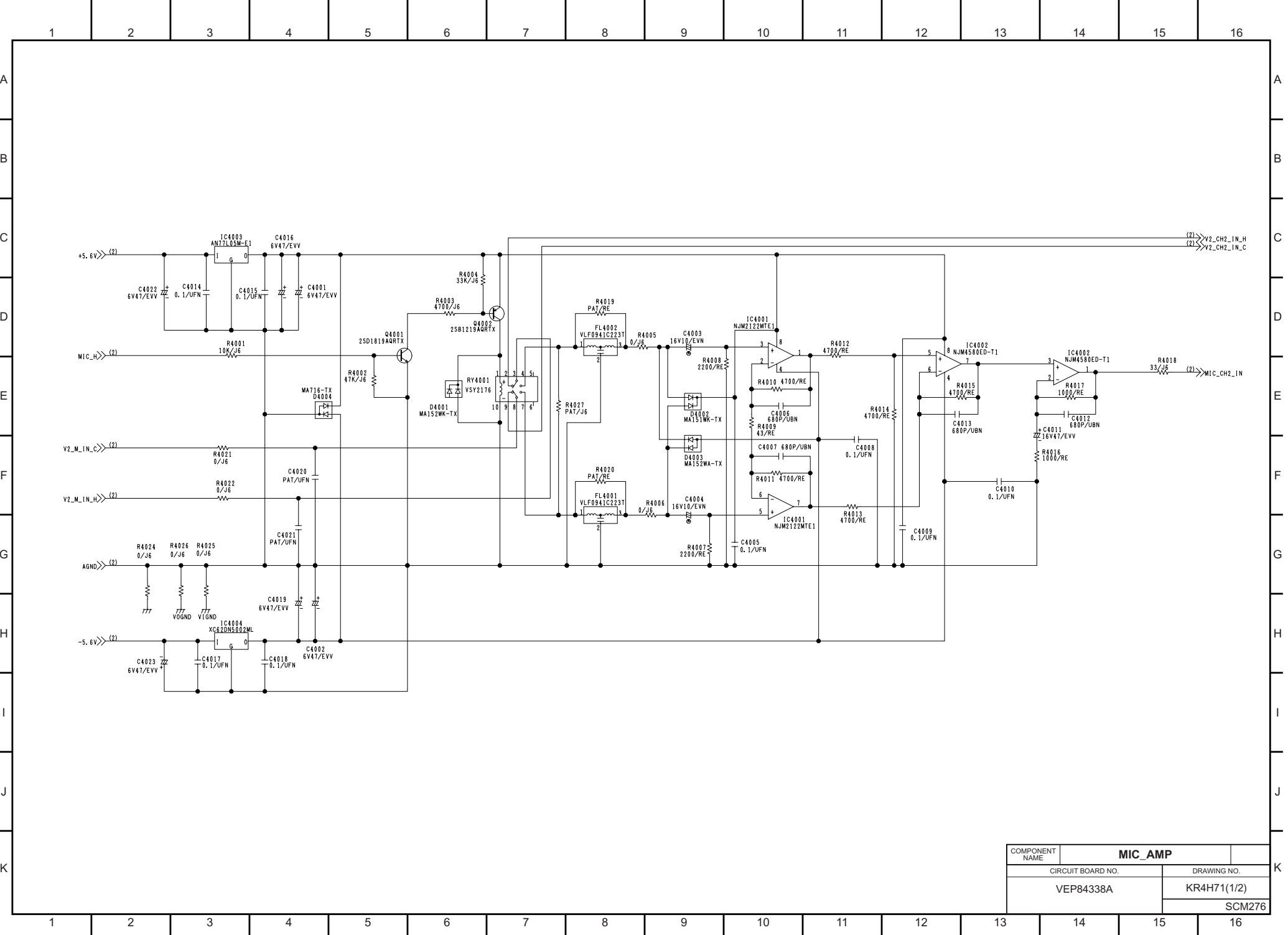






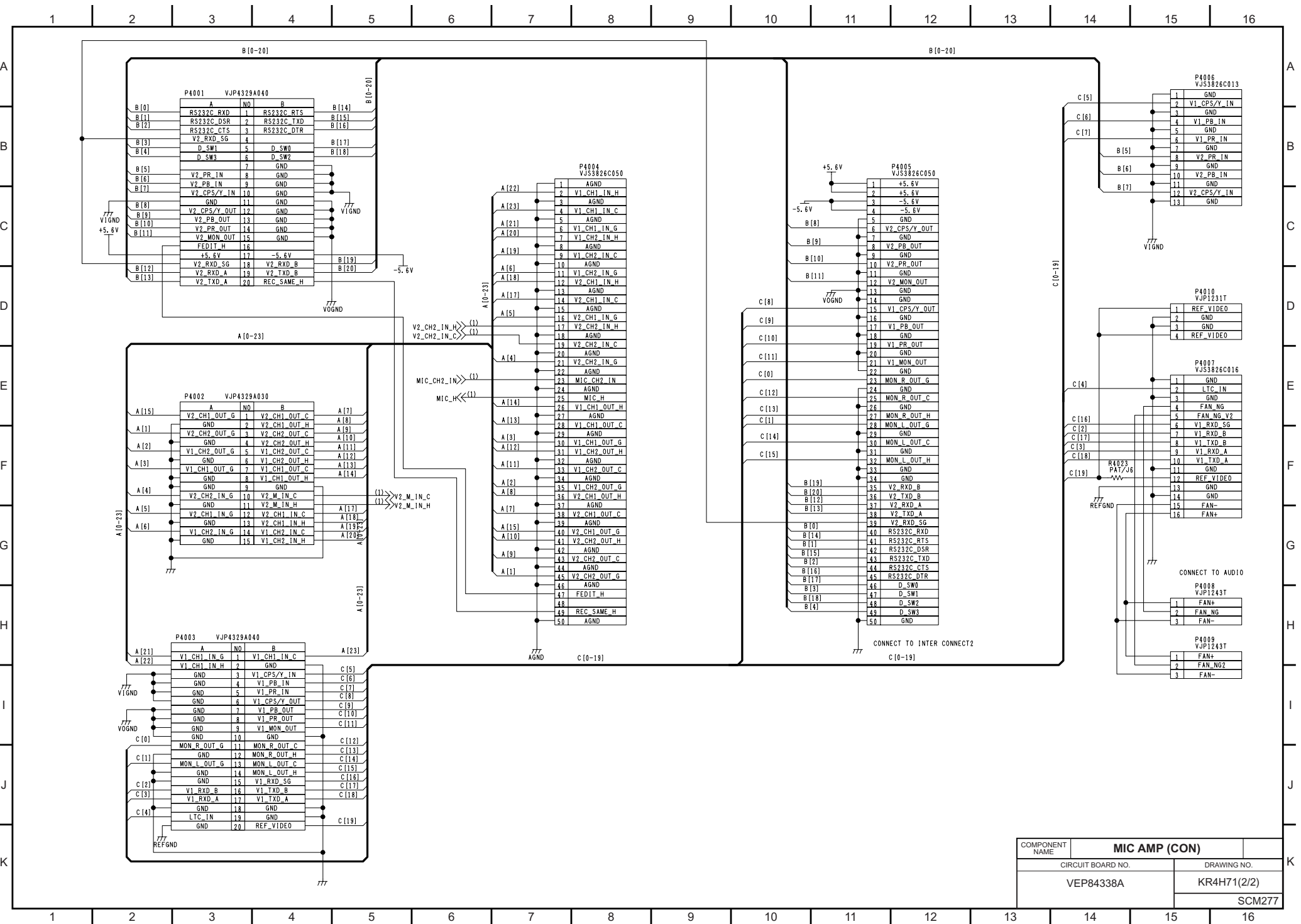
1	TENSION_VR
2	TENSION_TP
3	RP_HSW_L
4	SPA
5	TSR
6	T_ERR
7	S_ERR
8	LIVE_CTL
9	T_M_GND
10	GND
11	GND
12	+3V





COMPONENT NAME	MIC_AMP	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84338A		KR4H71(1/2)
		SCM276





COMPONENT NAME		MIC AMP (CON)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84338A		KR4H71(2/2)	
		SCM277	



P69201 VJP1883T	
KEY_SCAN0	1
KEY_SCAN1	2
KEY_SCAN2	3
KEY_SCAN3	4
KEY_IN6	5
KEY_IN7	6
BRIGHT_REF	7
BRIGHT_L	8
BRIGHT_GND	9
TOP_LED	10
GND	11
	12

BRIGHTNESS  
VRV0270  
VR69201

BACKLIGHT  
OFF DARK LIGHT

SW69201  
VSS0162

D69201  
MA165

COUNTER MODE  
UB TC CTL

SW69203  
VSS0162

D69202  
MA165

COUNTER/REMAIN

1 2 3 4

SW69202  
EVQGSB04B

D69203  
MA165

RESET

1 2 3 4

SW69205  
EVQGSB04B

D69204  
MA165

NORM/FINE

1 2 3 4

SW69204  
EVQGSB04B

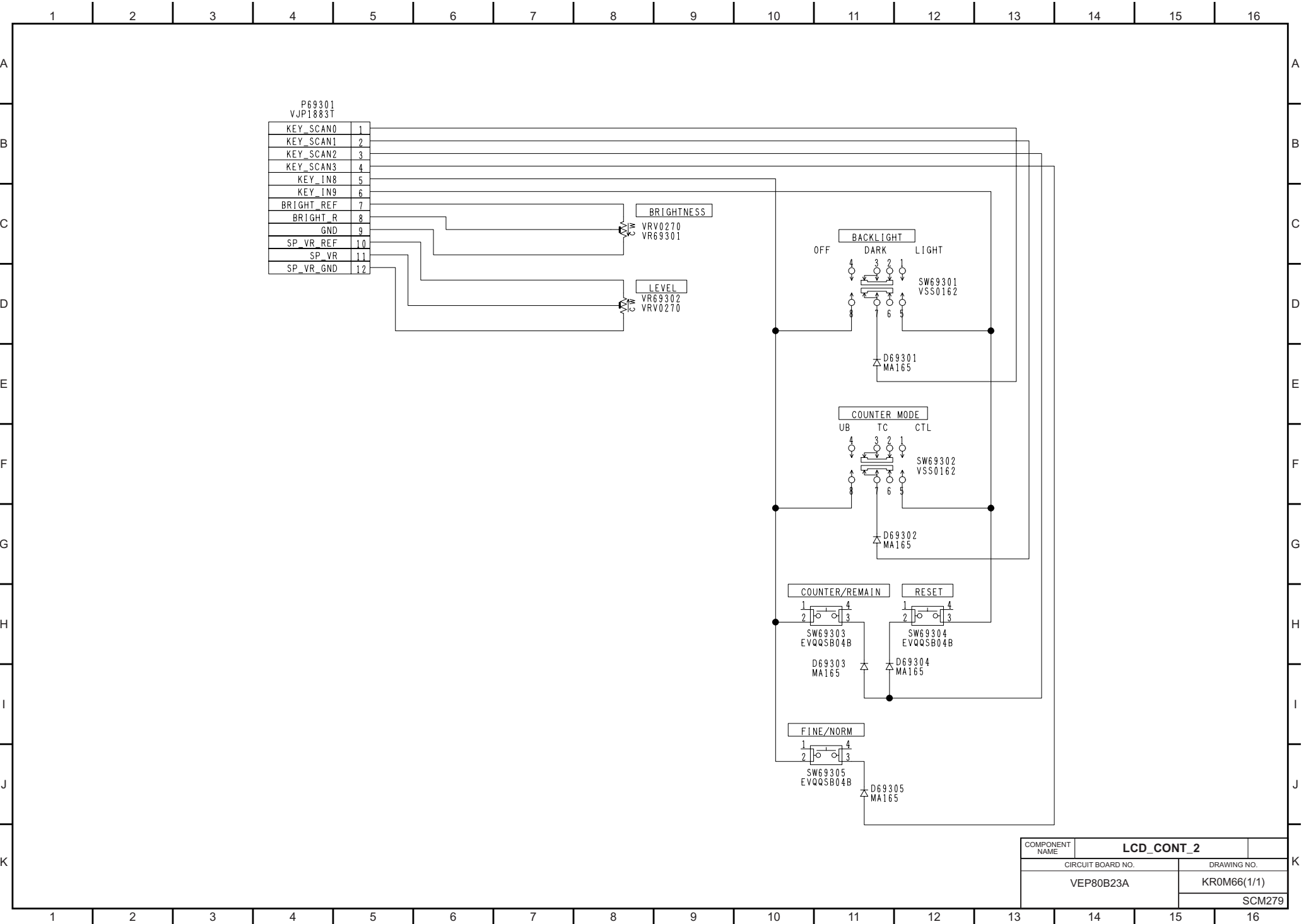
D69205  
MA165

P69202  
VJP1874T

1	TOP_LED
2	GND
3	GND

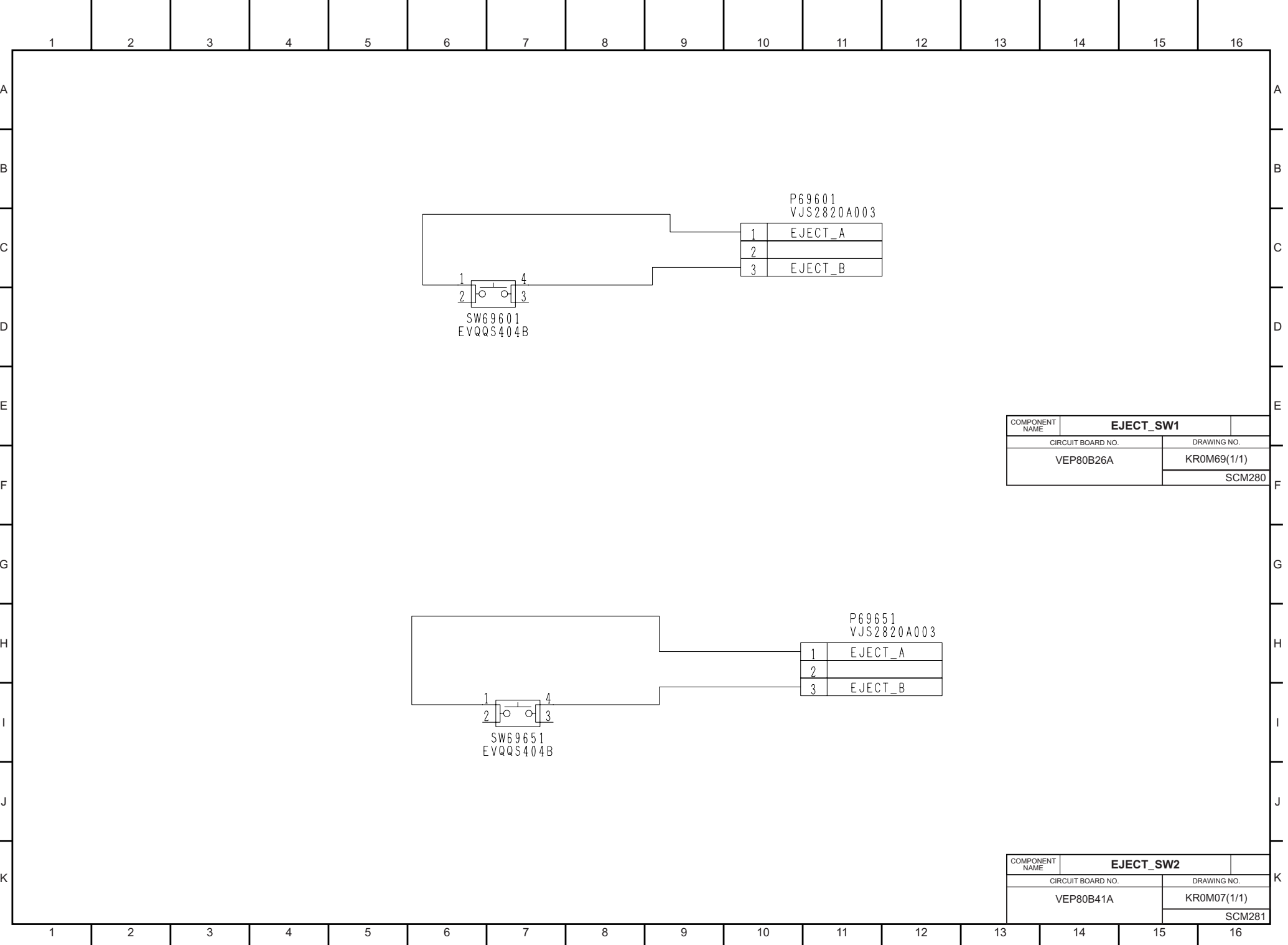
COMPONENT NAME	LCD_CONT_1	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B22A		KR0M65(1/1)
SCM278		





COMPONENT NAME	LCD_CONT_2	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B23A		KR0M66(1/1)
SCM279		

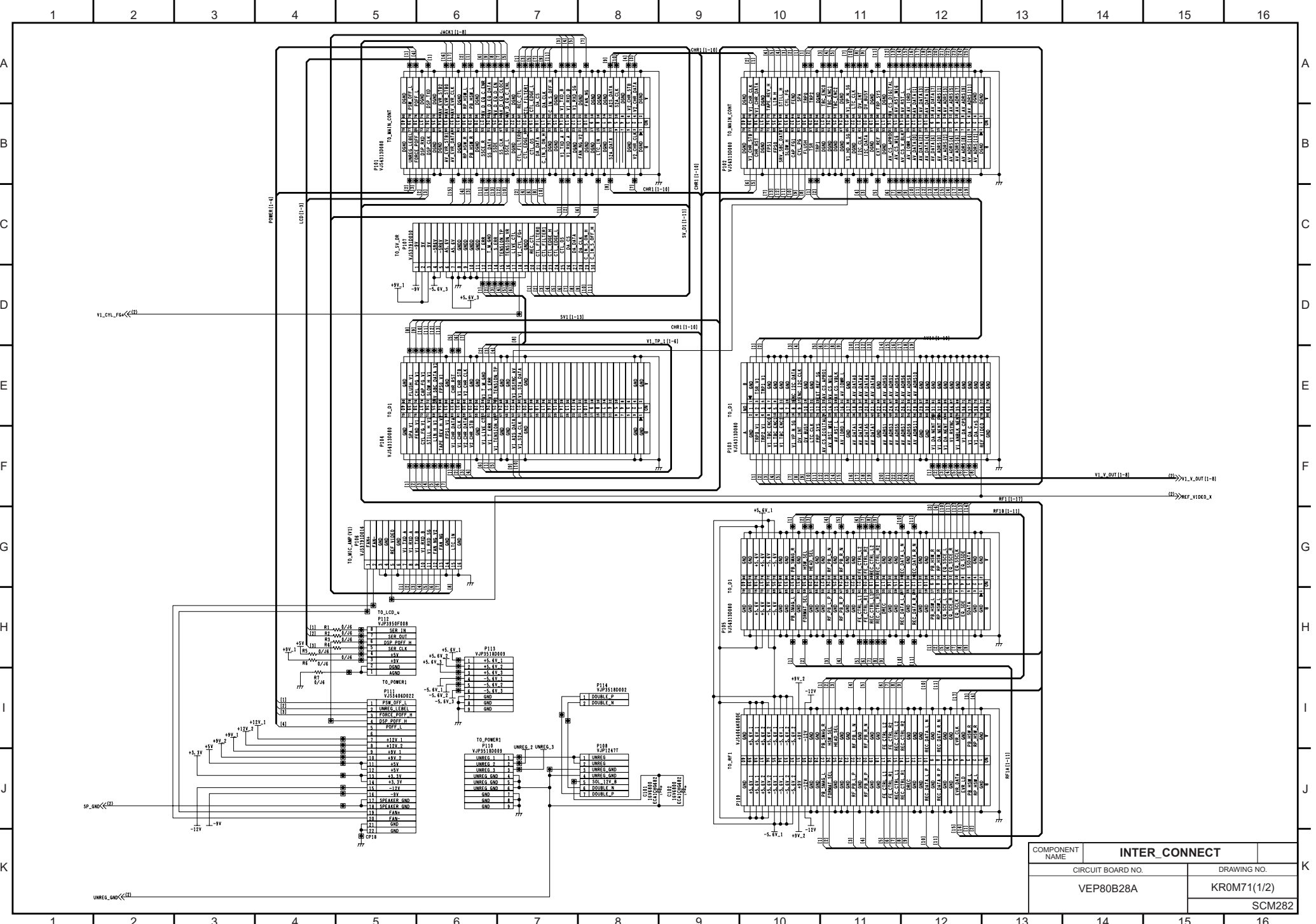




COMPONENT NAME	EJECT_SW1	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B26A		KR0M69(1/1)
		SCM280

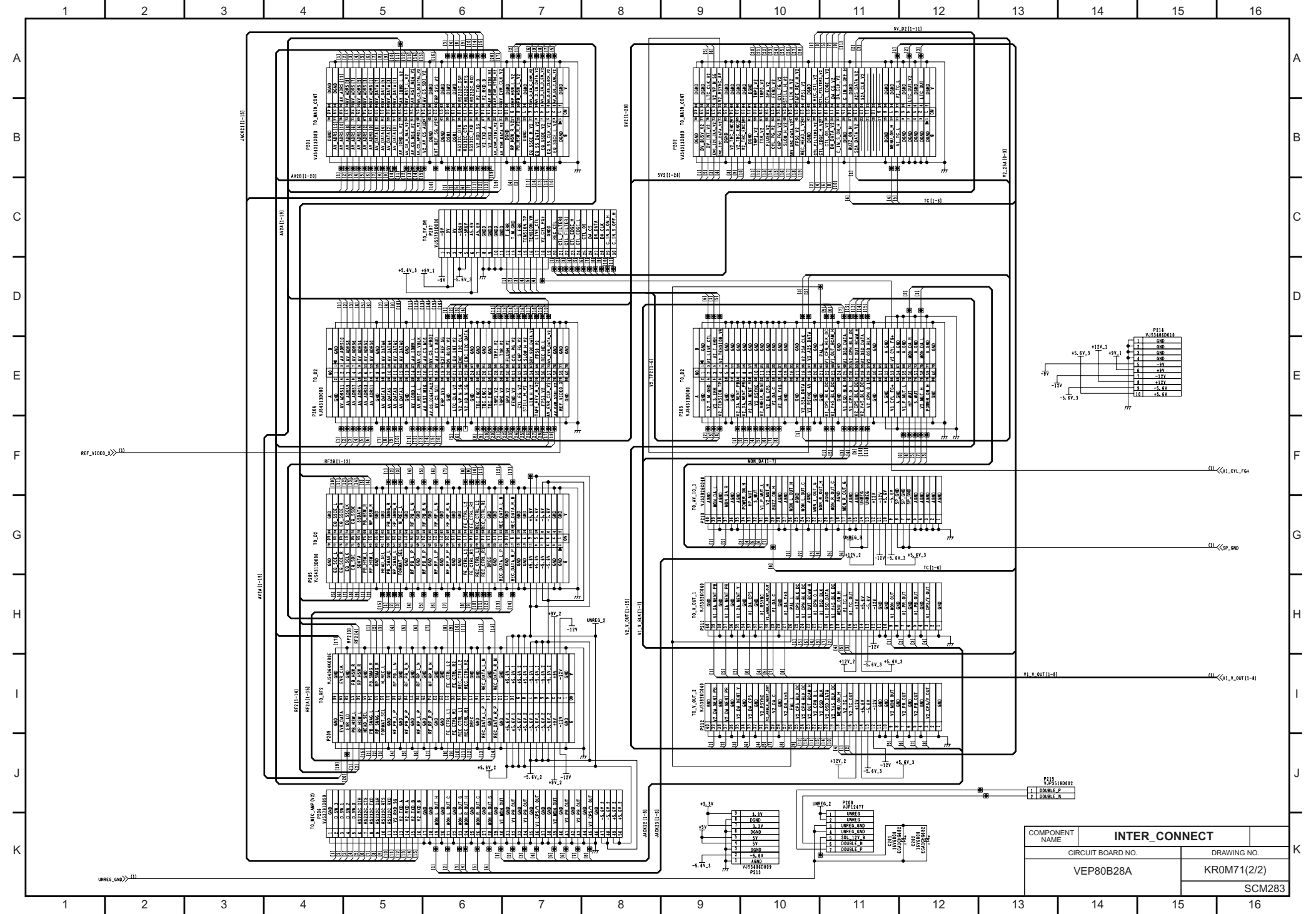
COMPONENT NAME	EJECT_SW2	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B41A		KR0M07(1/1)
		SCM281



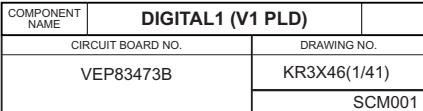
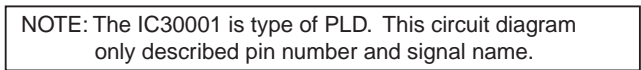


INTER_CONNECT	
CIRCUIT BOARD NO.	DRAWING NO.
VEP80B28A	KR07M1(1/2)
SCM282	





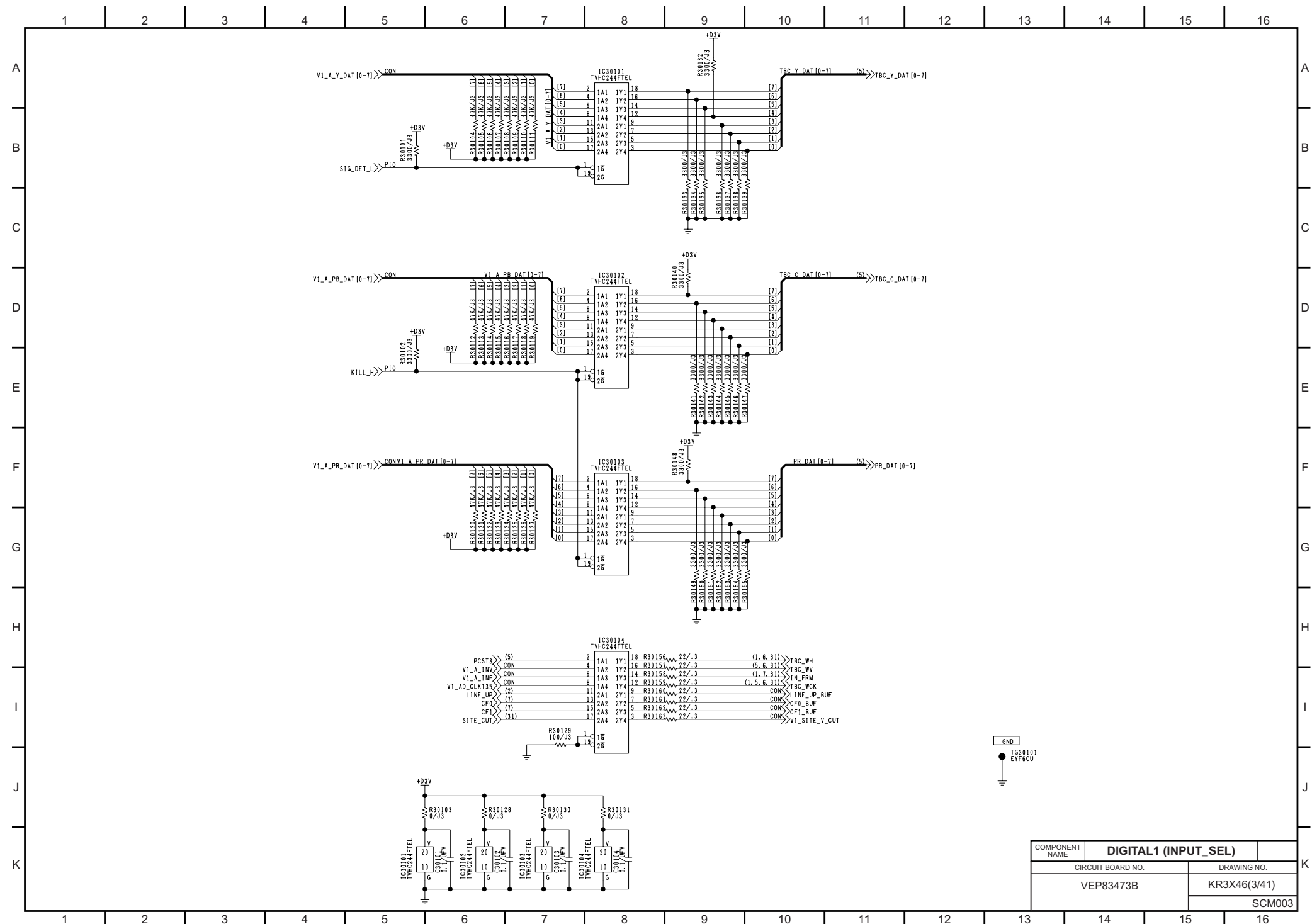




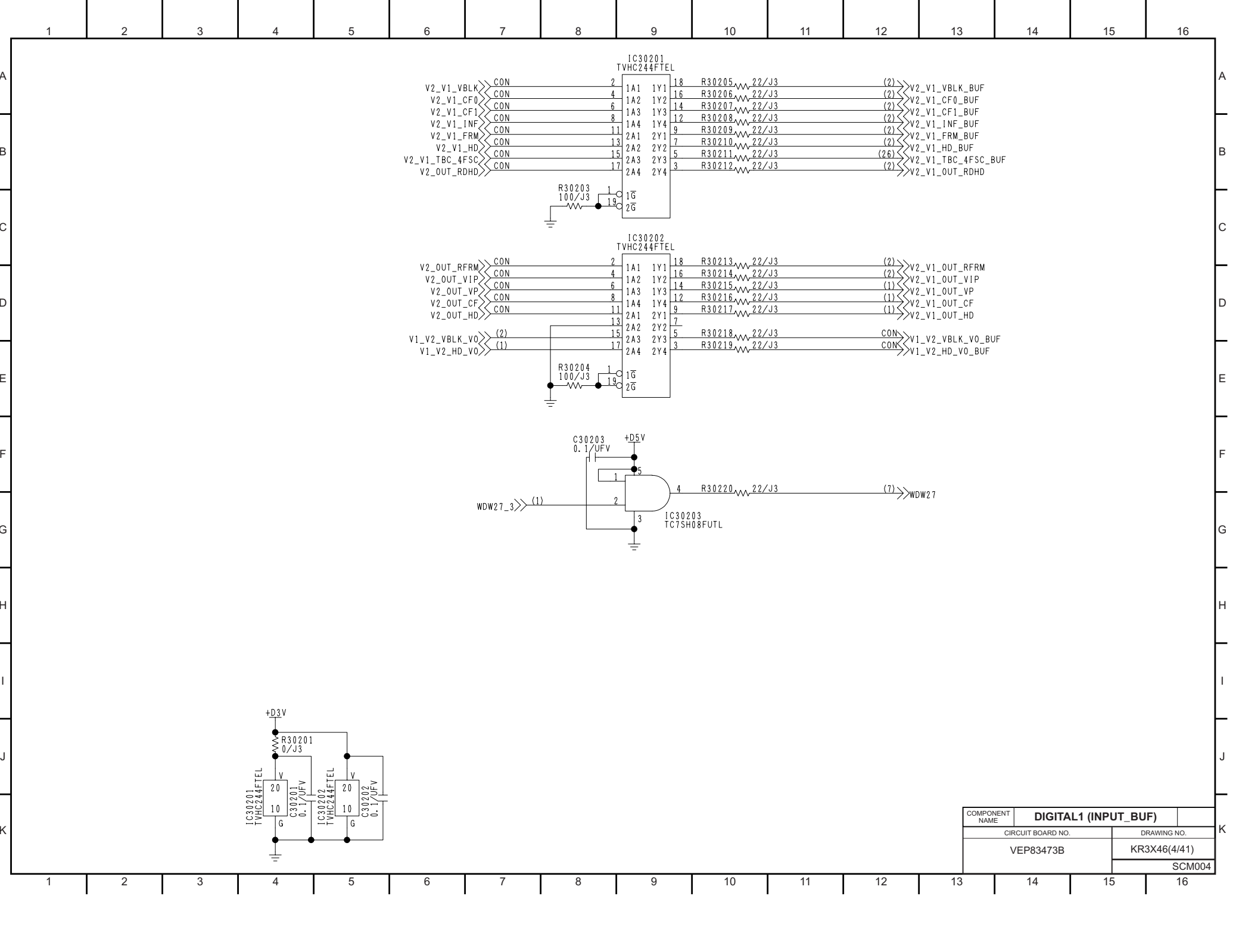






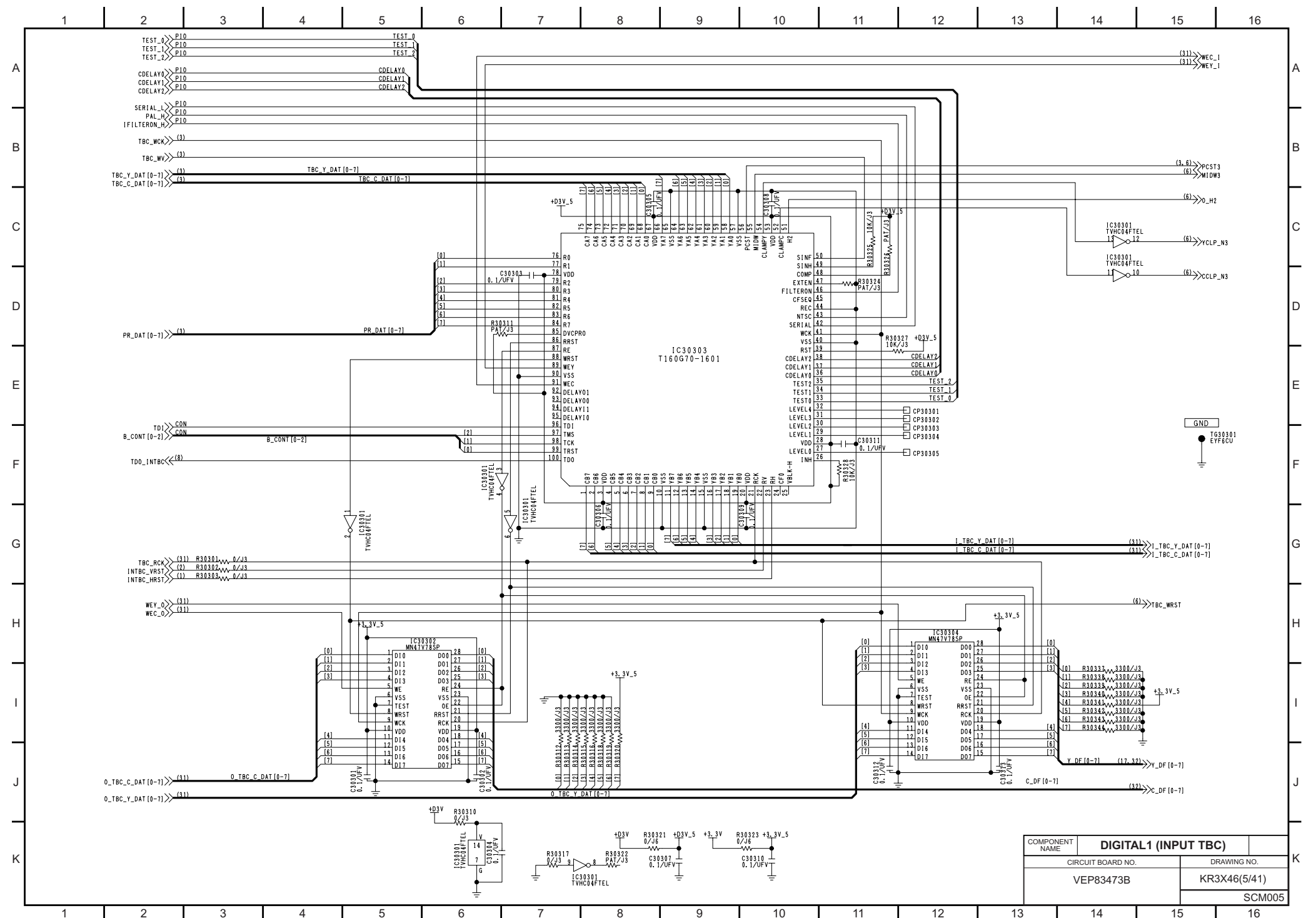




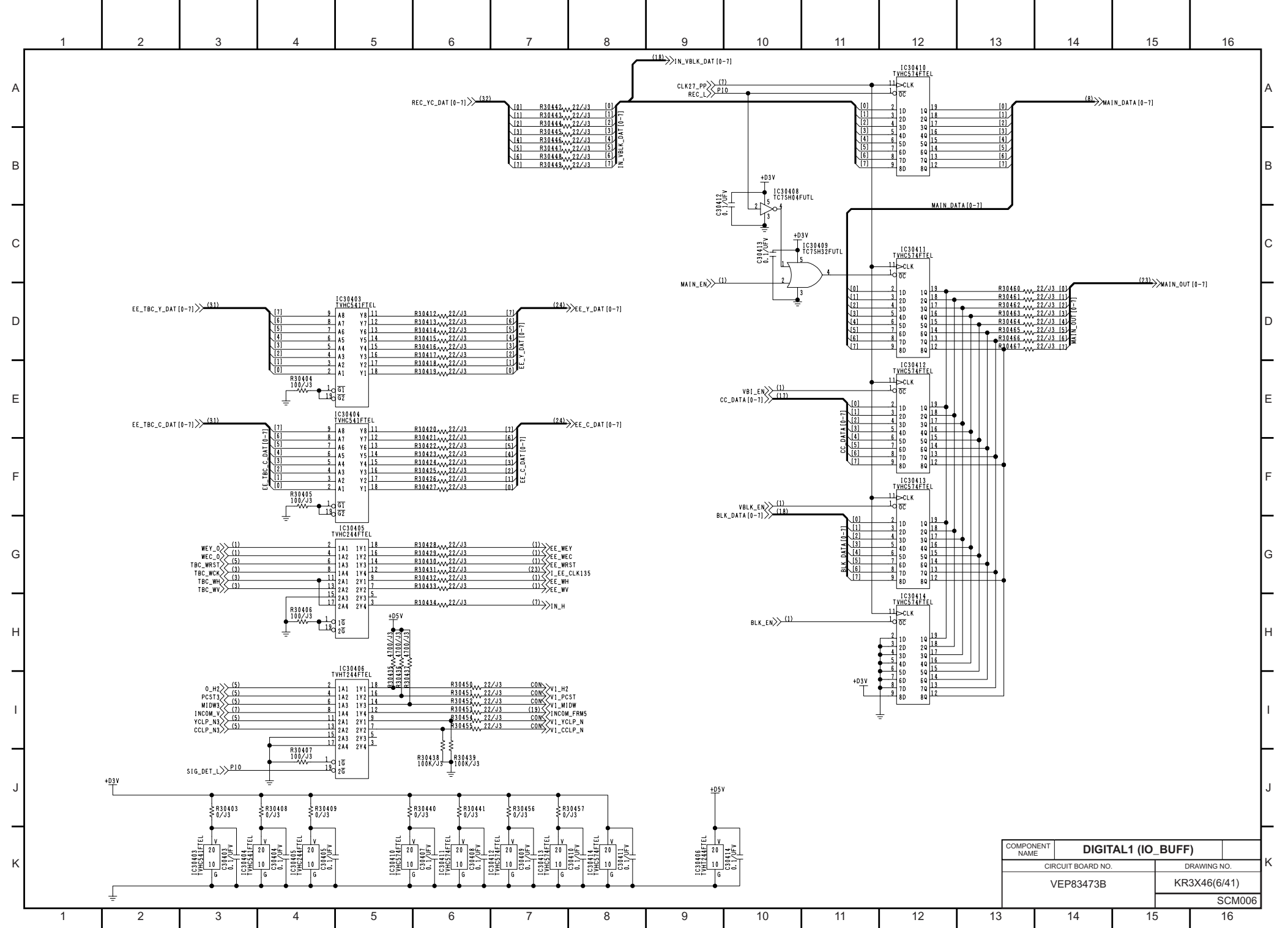


COMPONENT NAME	DIGITAL1 (INPUT_BUF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(4/41)
		SCM004

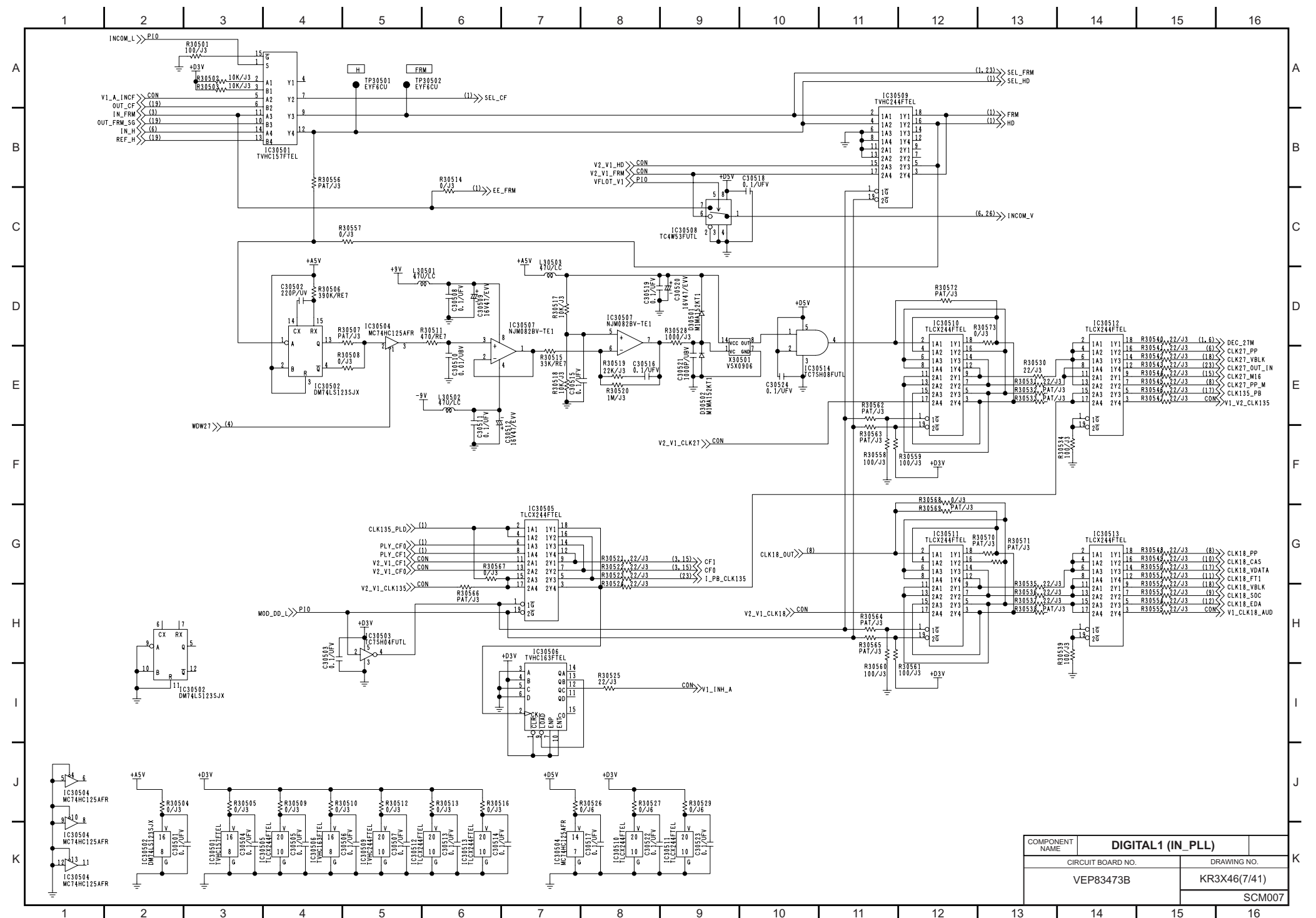




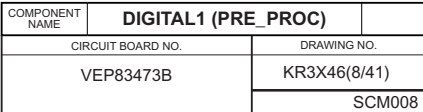










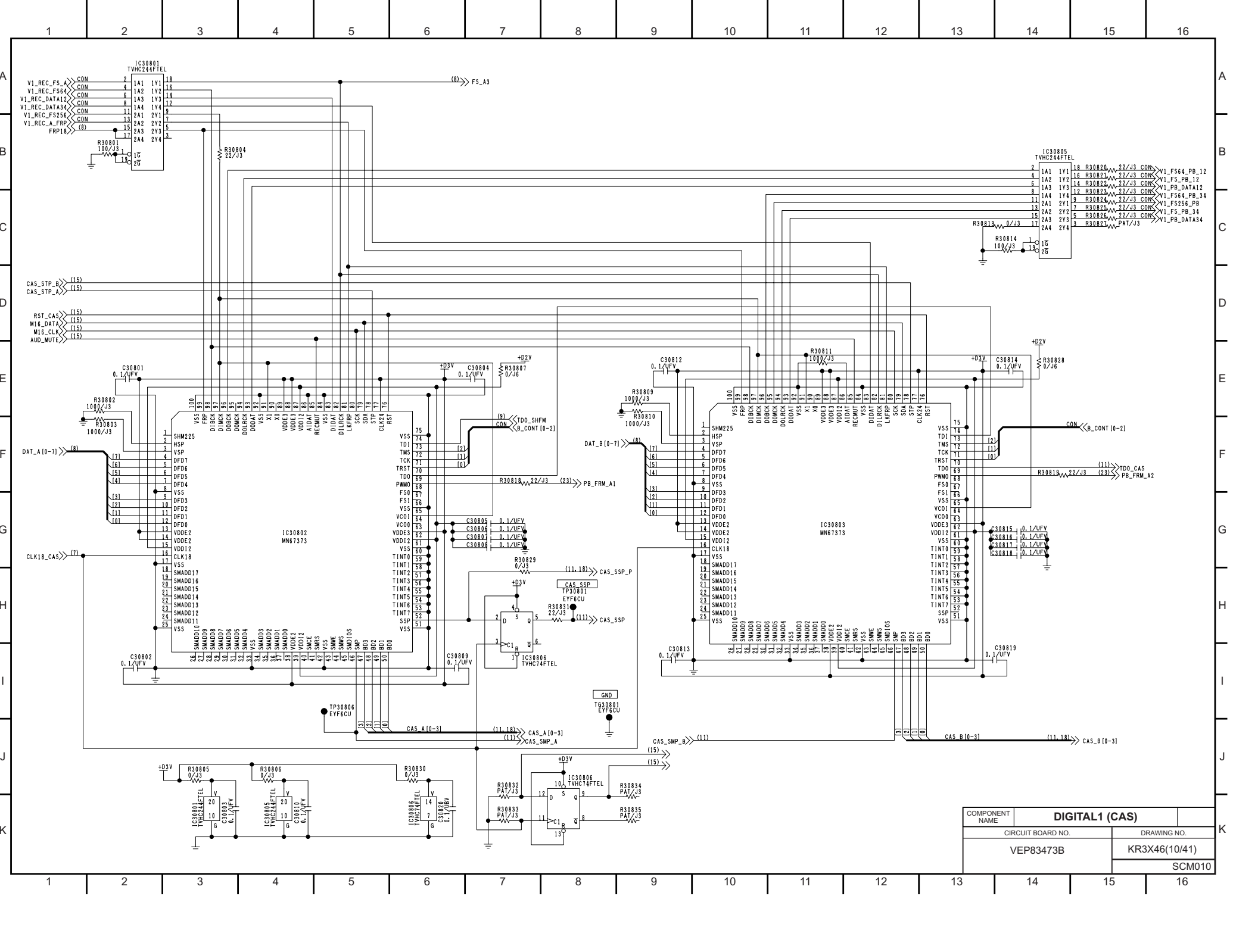


COMPONENT NAME	DIGITAL1 (PRE_PROC)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(8/41)
		SCM008



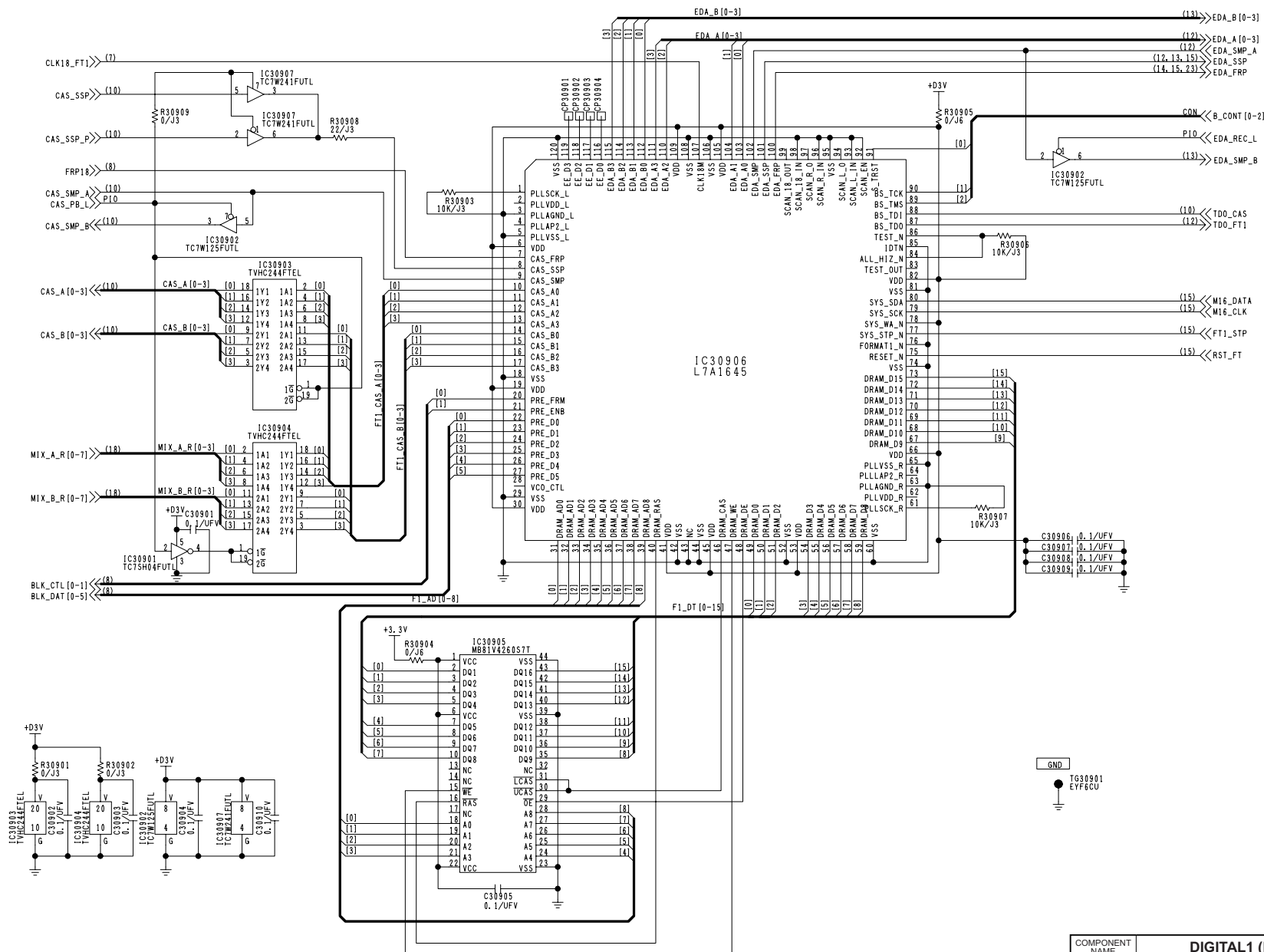






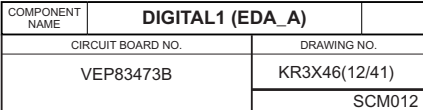
COMPONENT NAME		DIGITAL1 (CAS)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(10/41)	
		SCM010	



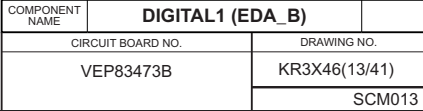


COMPONENT NAME		DIGITAL1 (FT1)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(11/41)	
		SCM011	

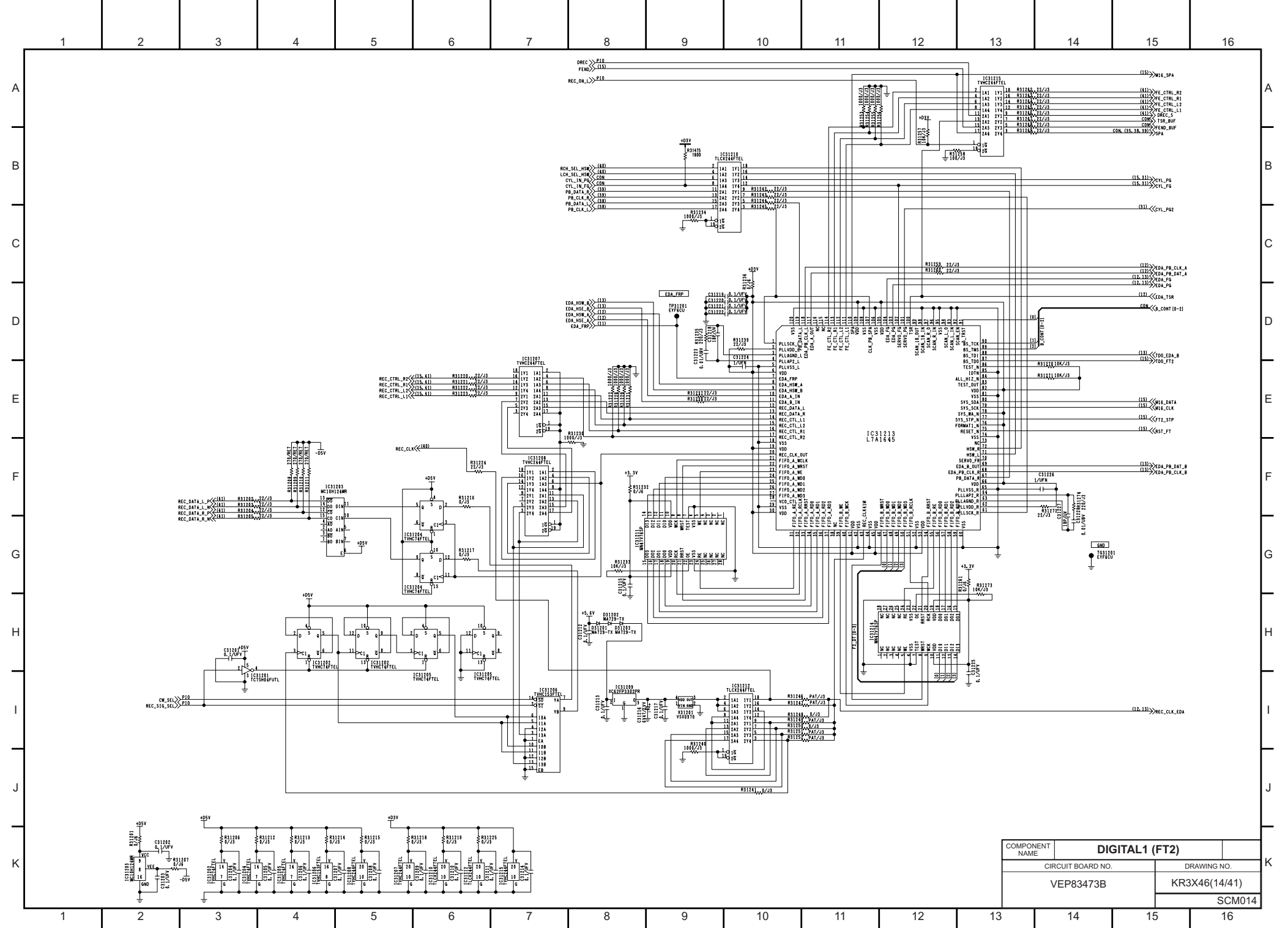






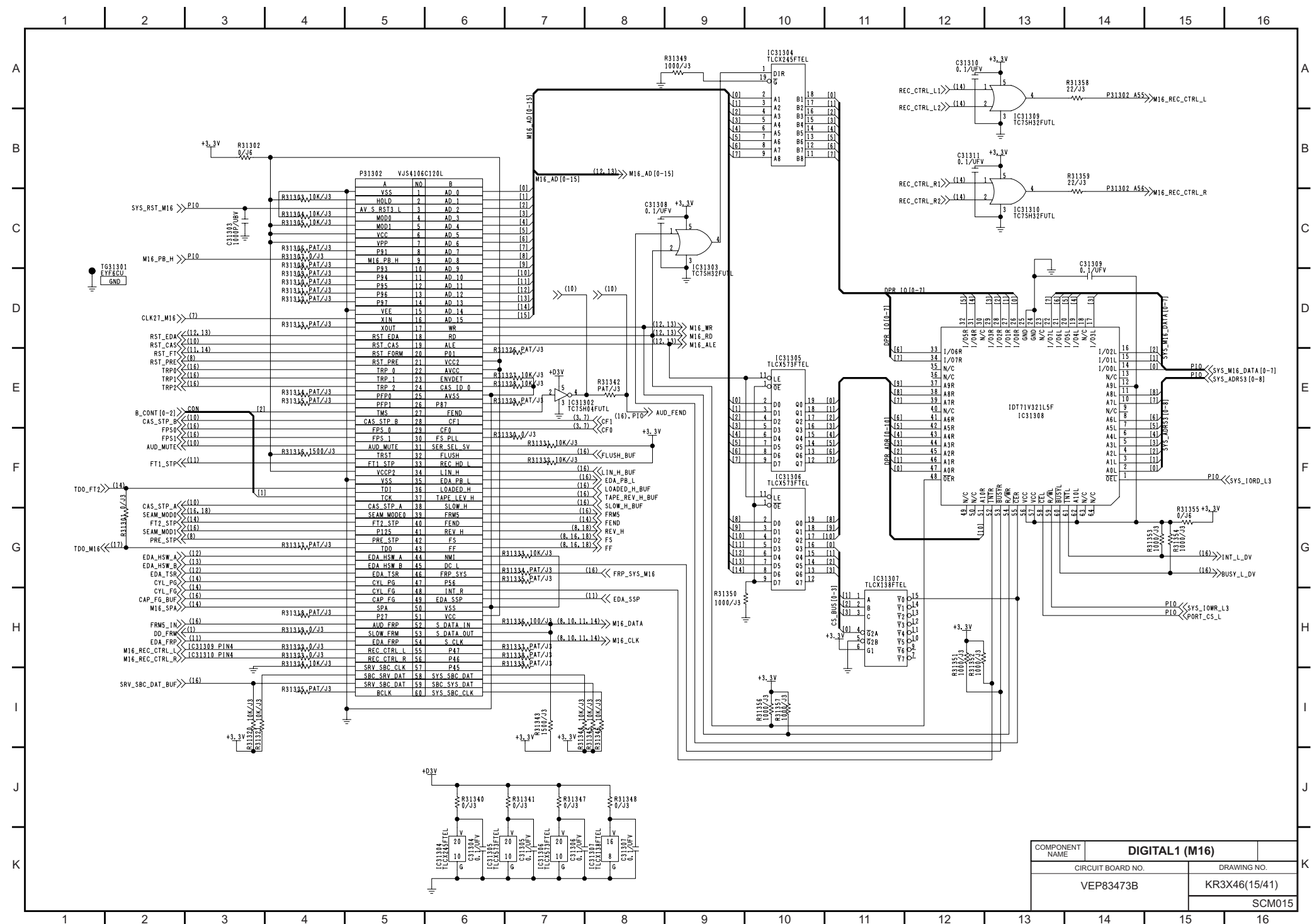




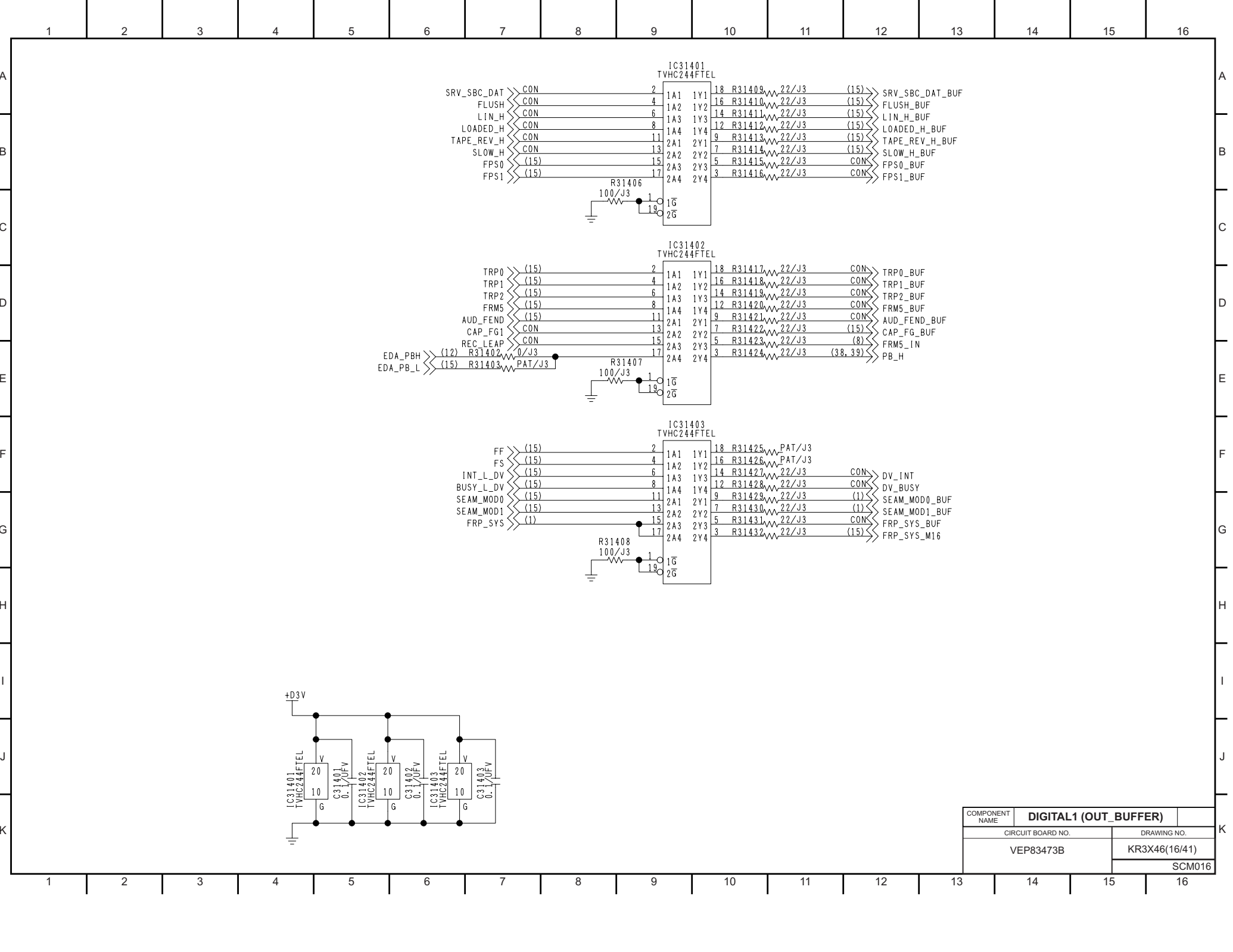


COMPONENT NAME	<b>DIGITAL1 (FT2)</b>		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(14/41)	
		SCM014	









COMPONENT NAME	DIGITAL1 (OUT_BUFFER)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(16/41)
		SCM016

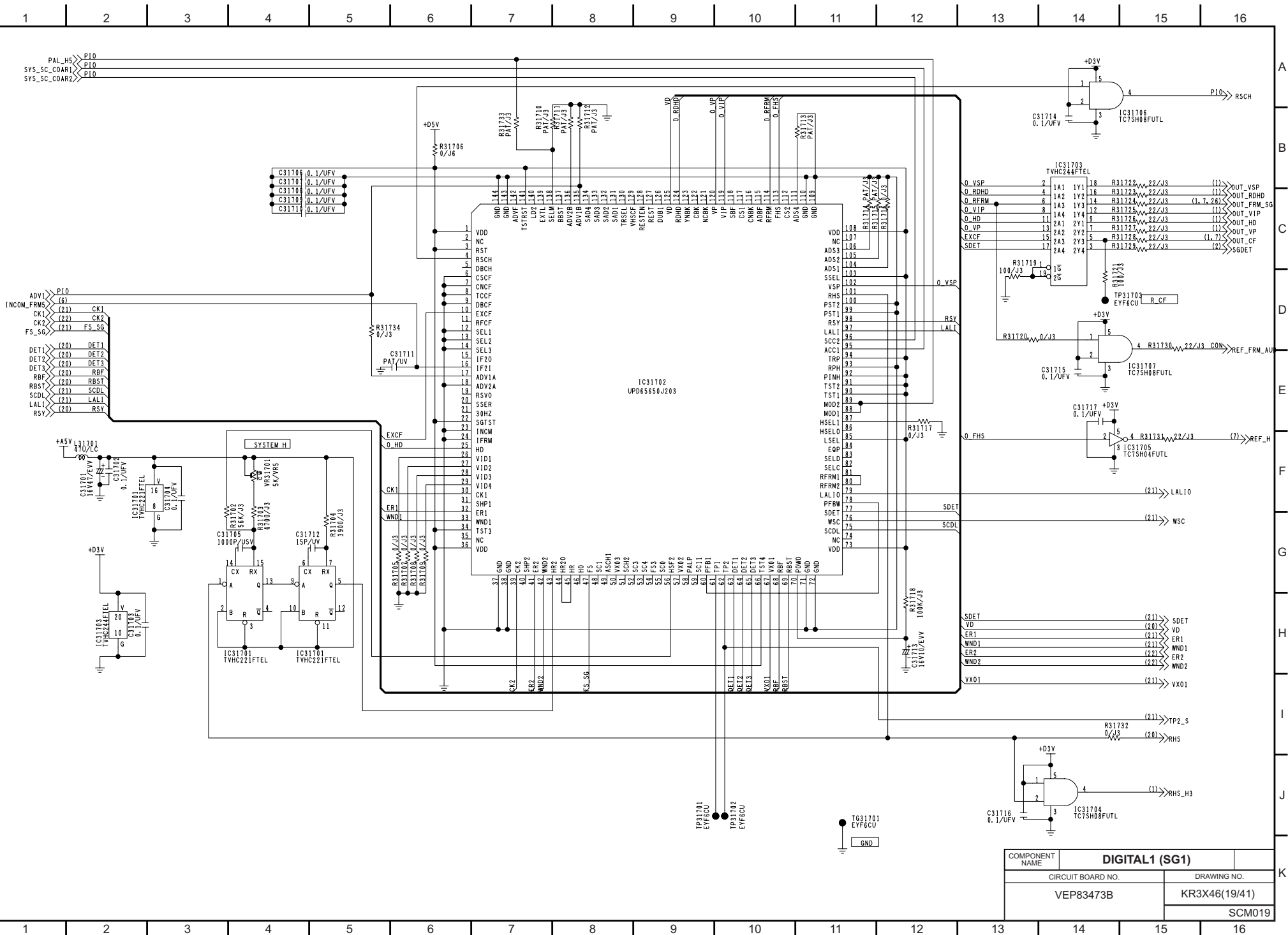




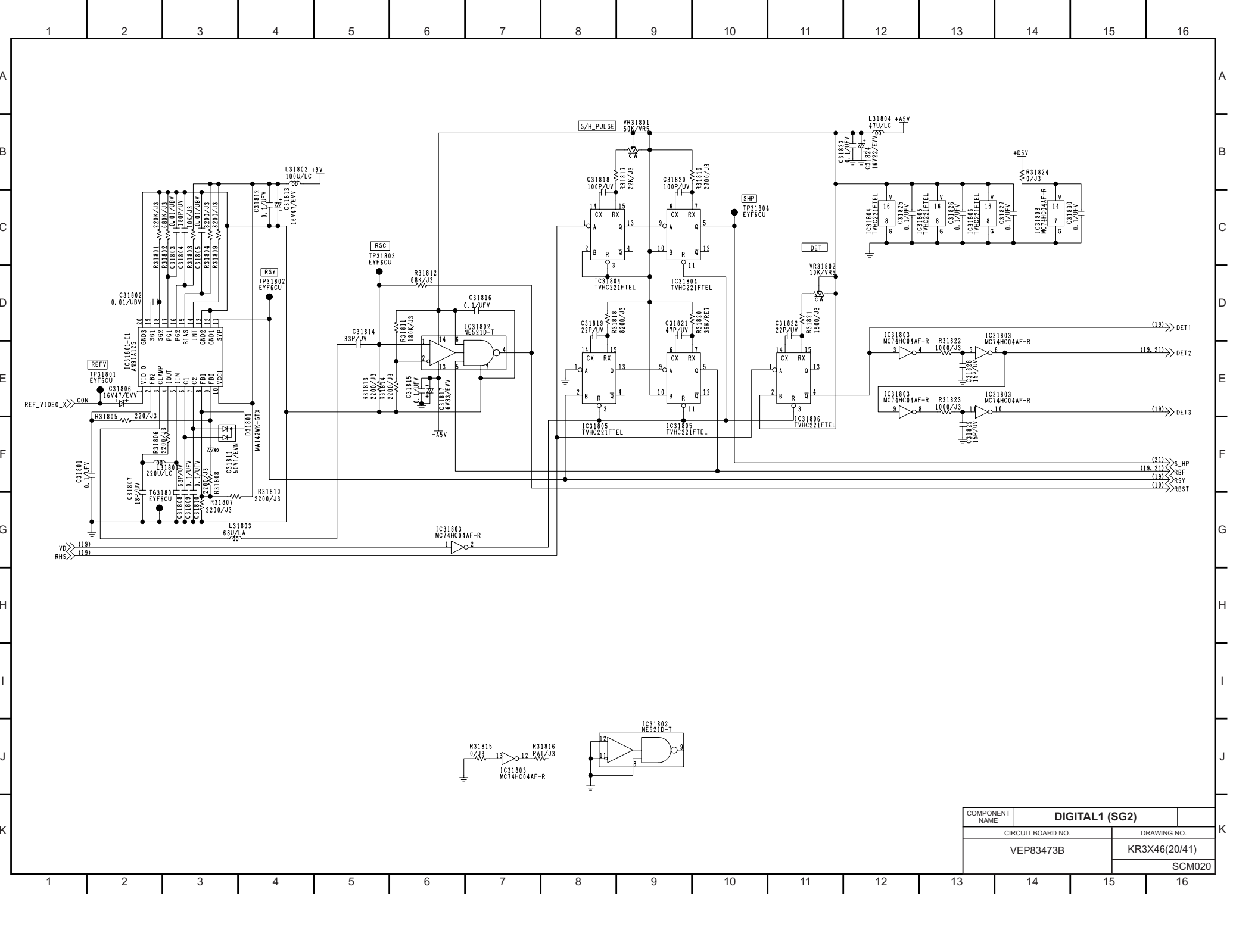












COMPONENT NAME	DIGITAL1 (SG2)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(20/41)
SCM020		



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A

B

C

D

E

F

G

H

I

J

K

A

B

C

D

E

F

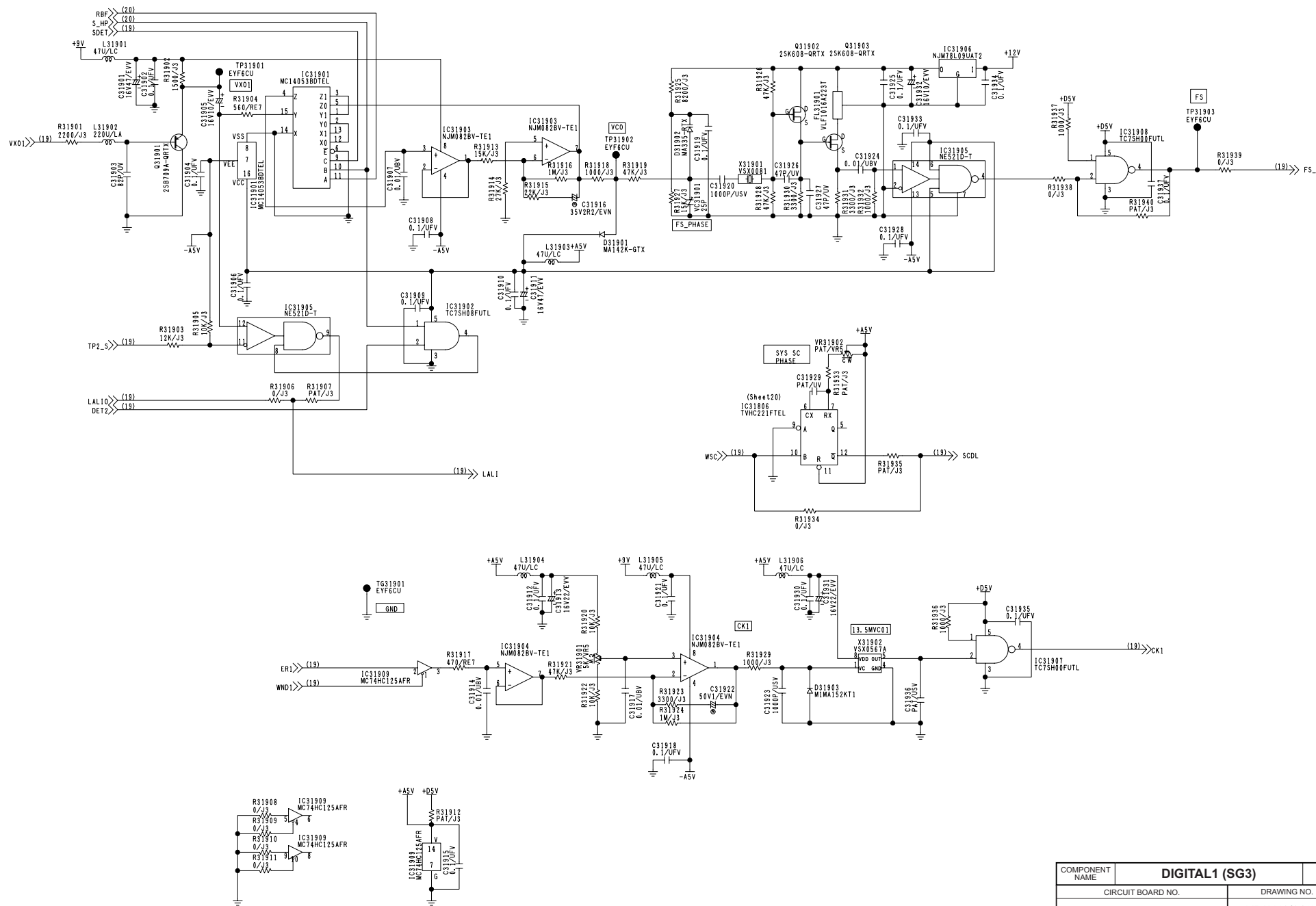
G

H

I

J

K



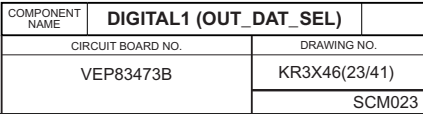
COMPONENT NAME		DIGITAL1 (SG3)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(21/41)	
		SCM021	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

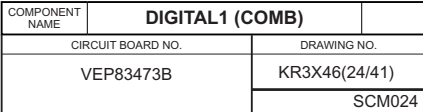






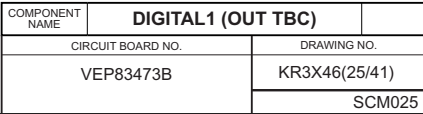






COMPONENT NAME	DIGITAL1 (COMB)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(24/41)	
		SCM024	

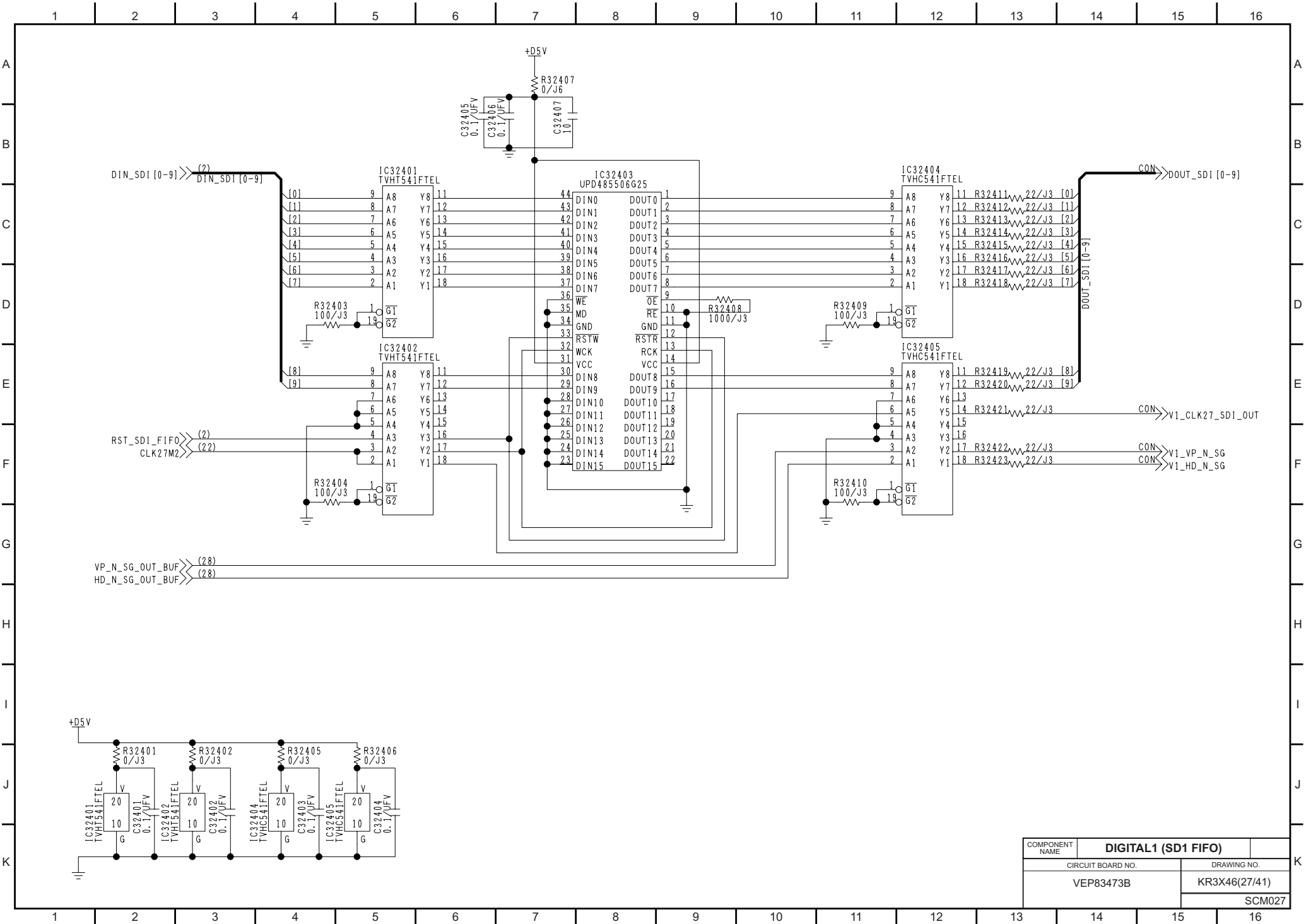




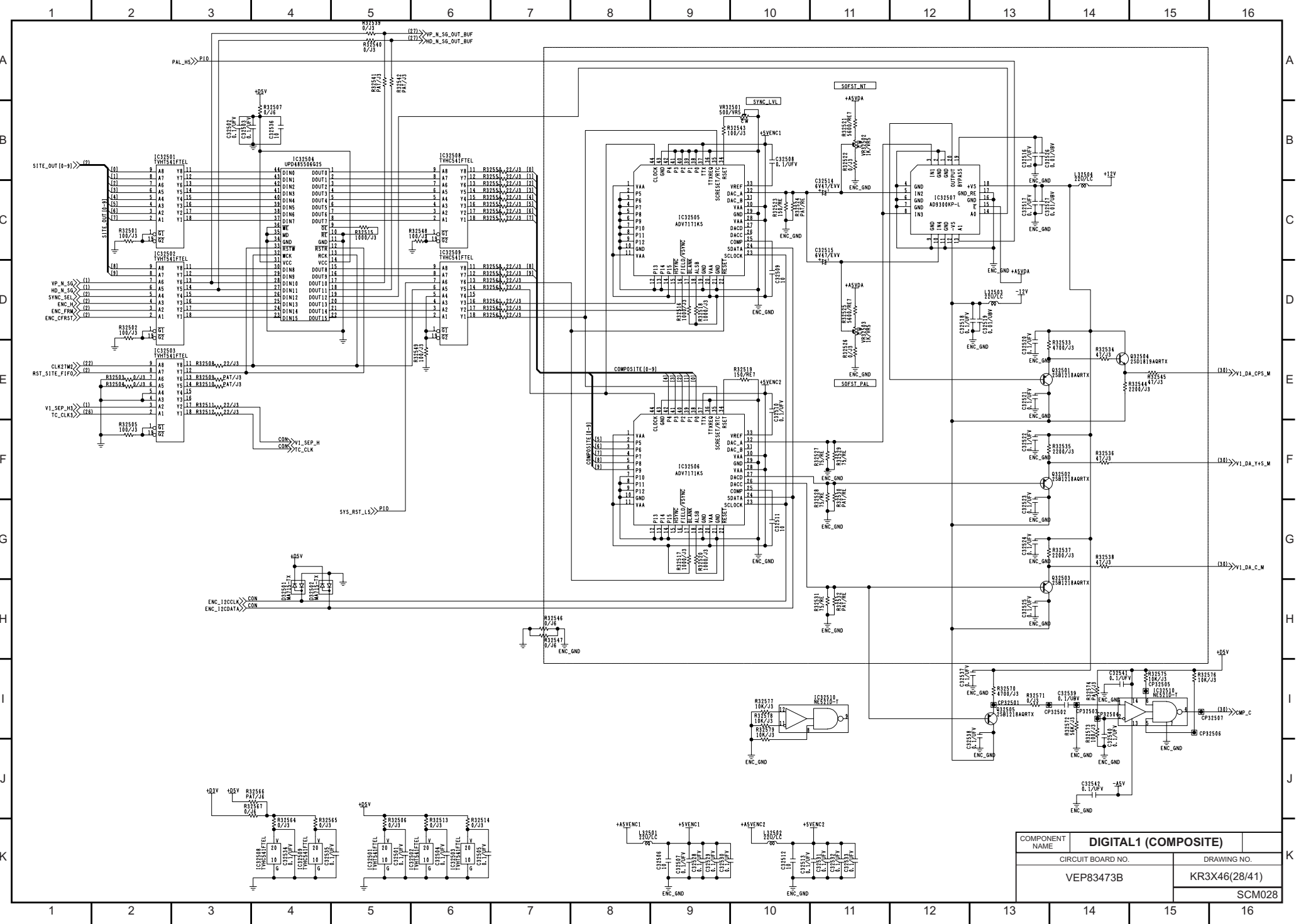






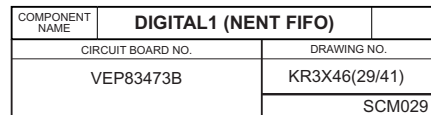






DIGITAL1 (COMPOSITE)		
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(28/41)
SCM028		

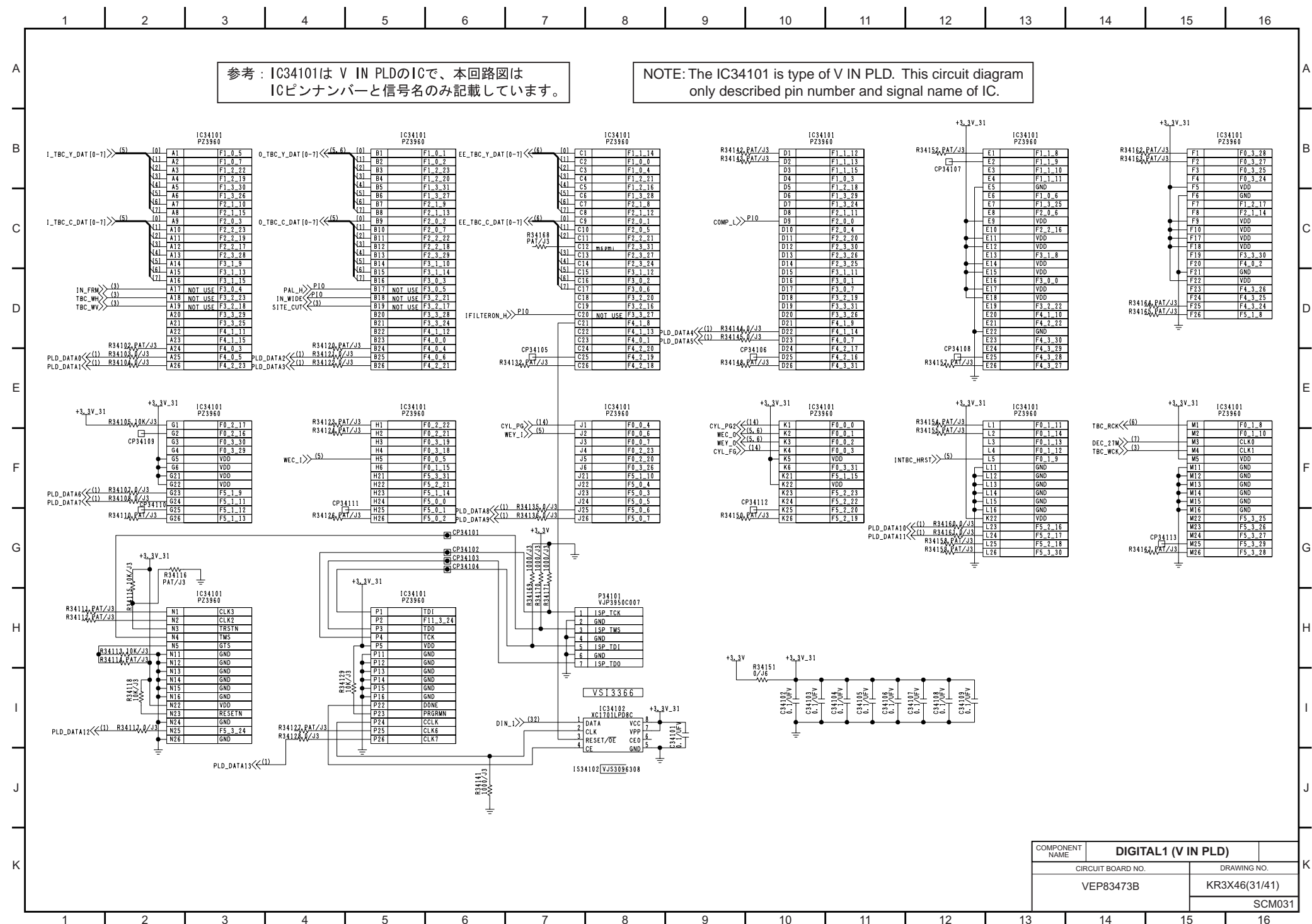




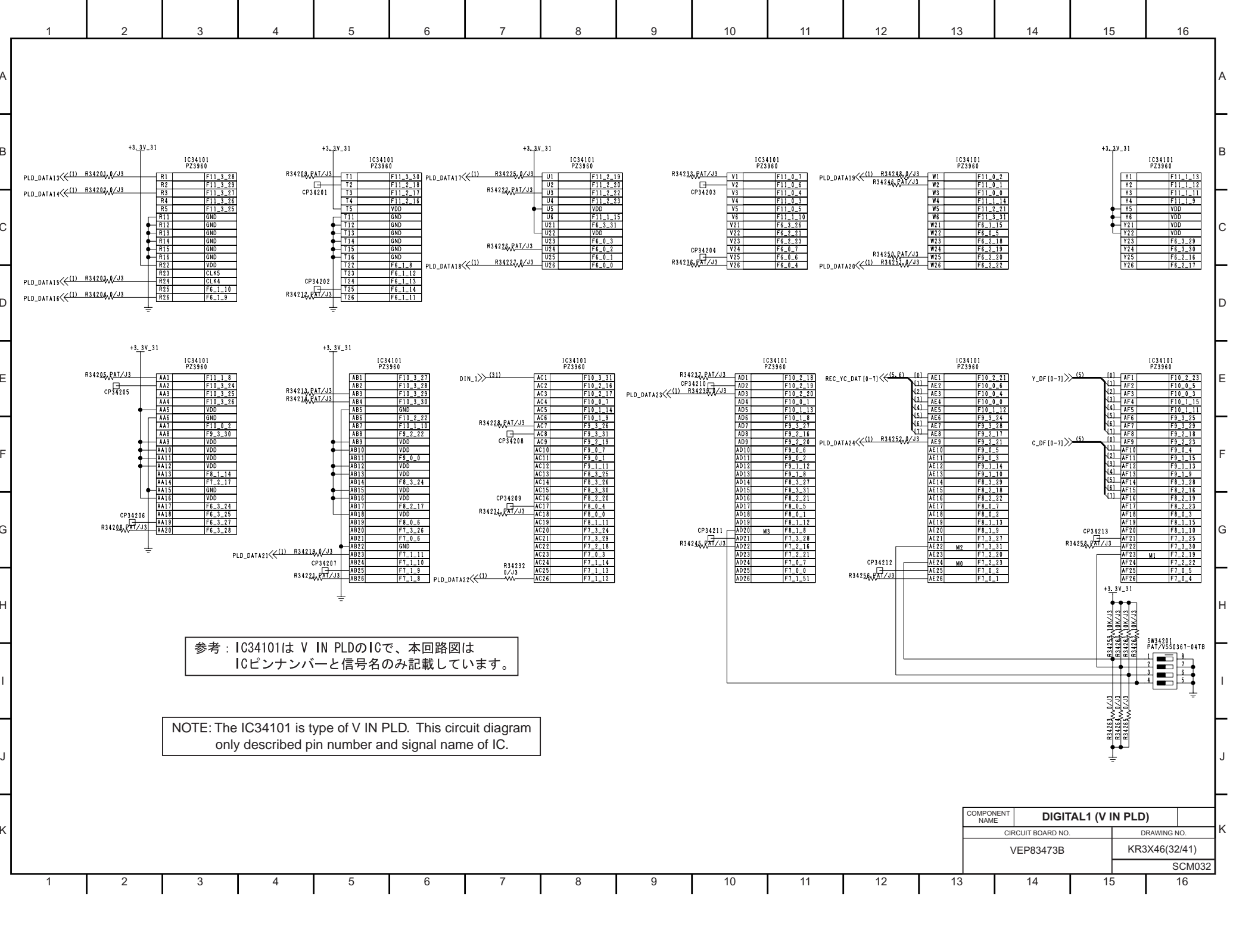






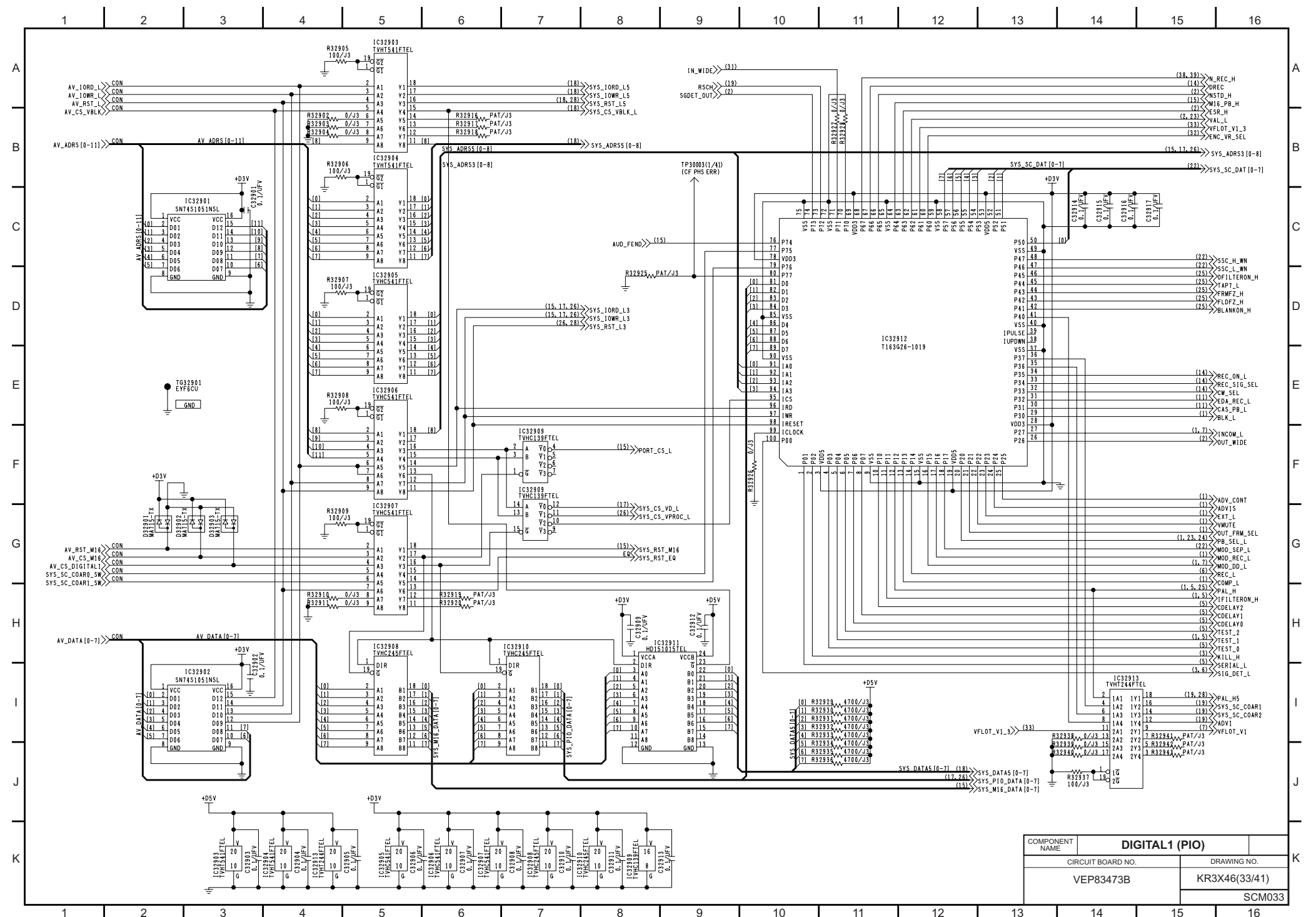




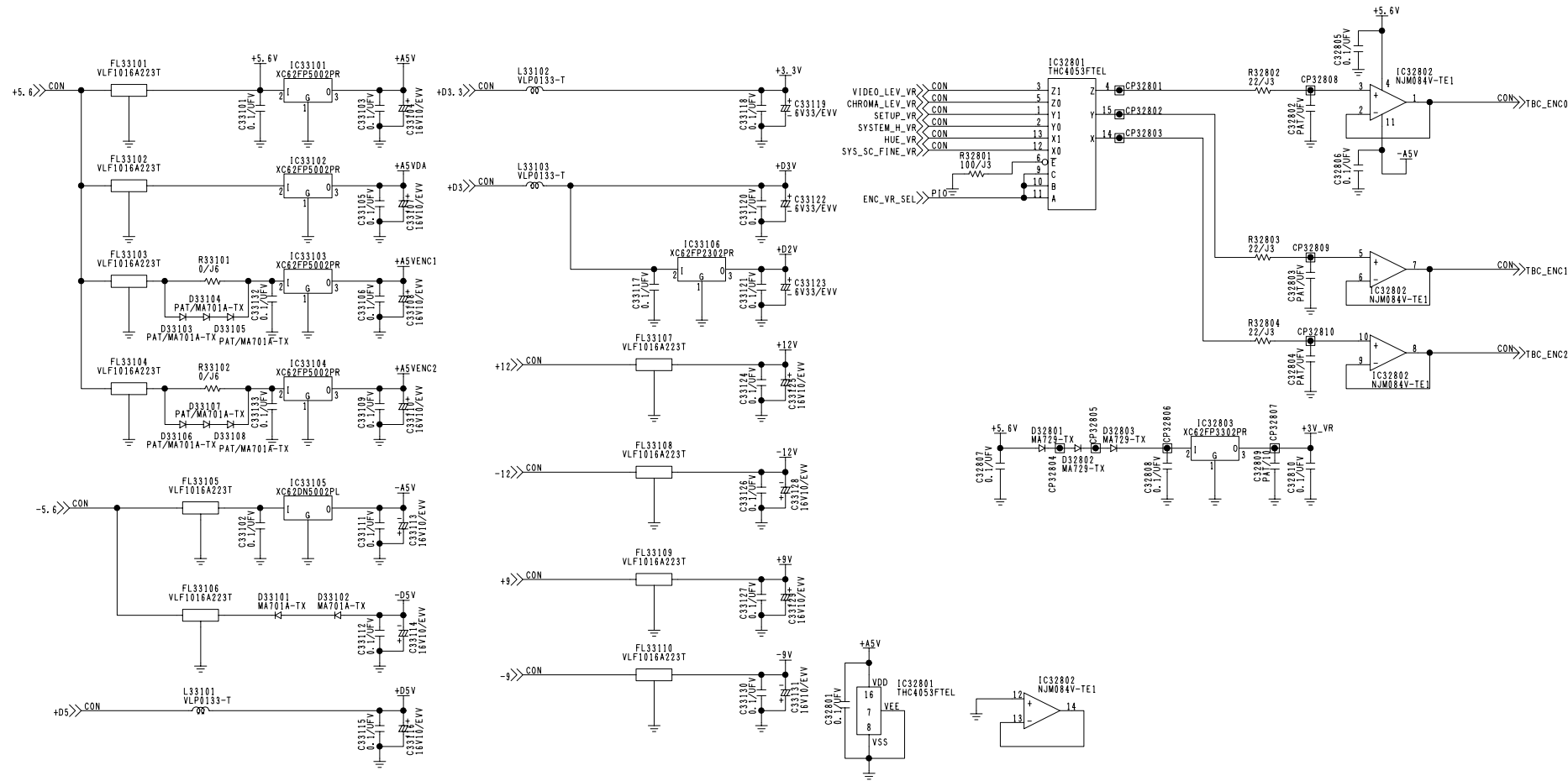


COMPONENT NAME	DIGITAL1 (V IN PLD)	
	CIRCUIT BOARD NO.	DRAWING NO.
VEP83473B		KR3X46(32/41)
		SCM032



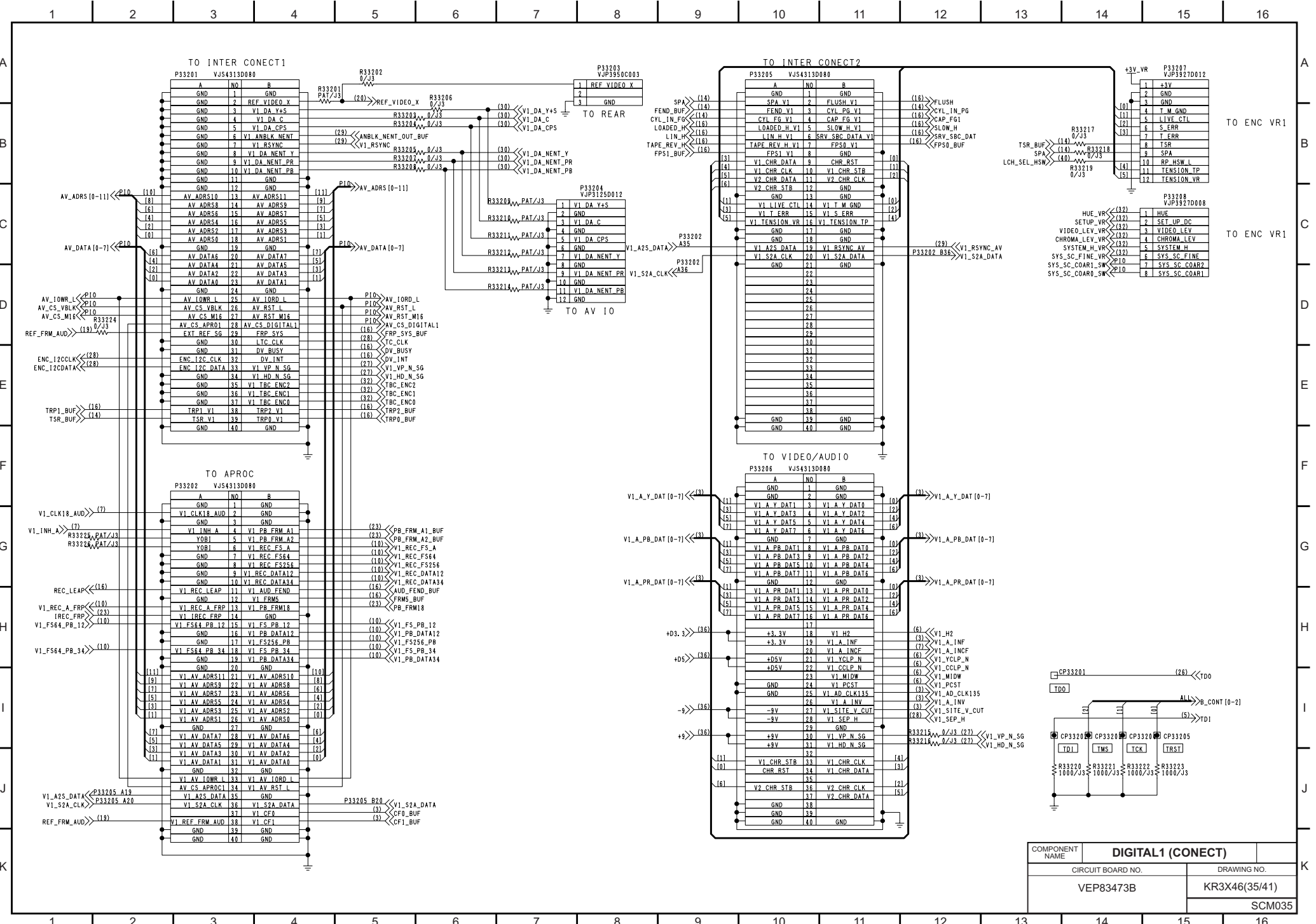






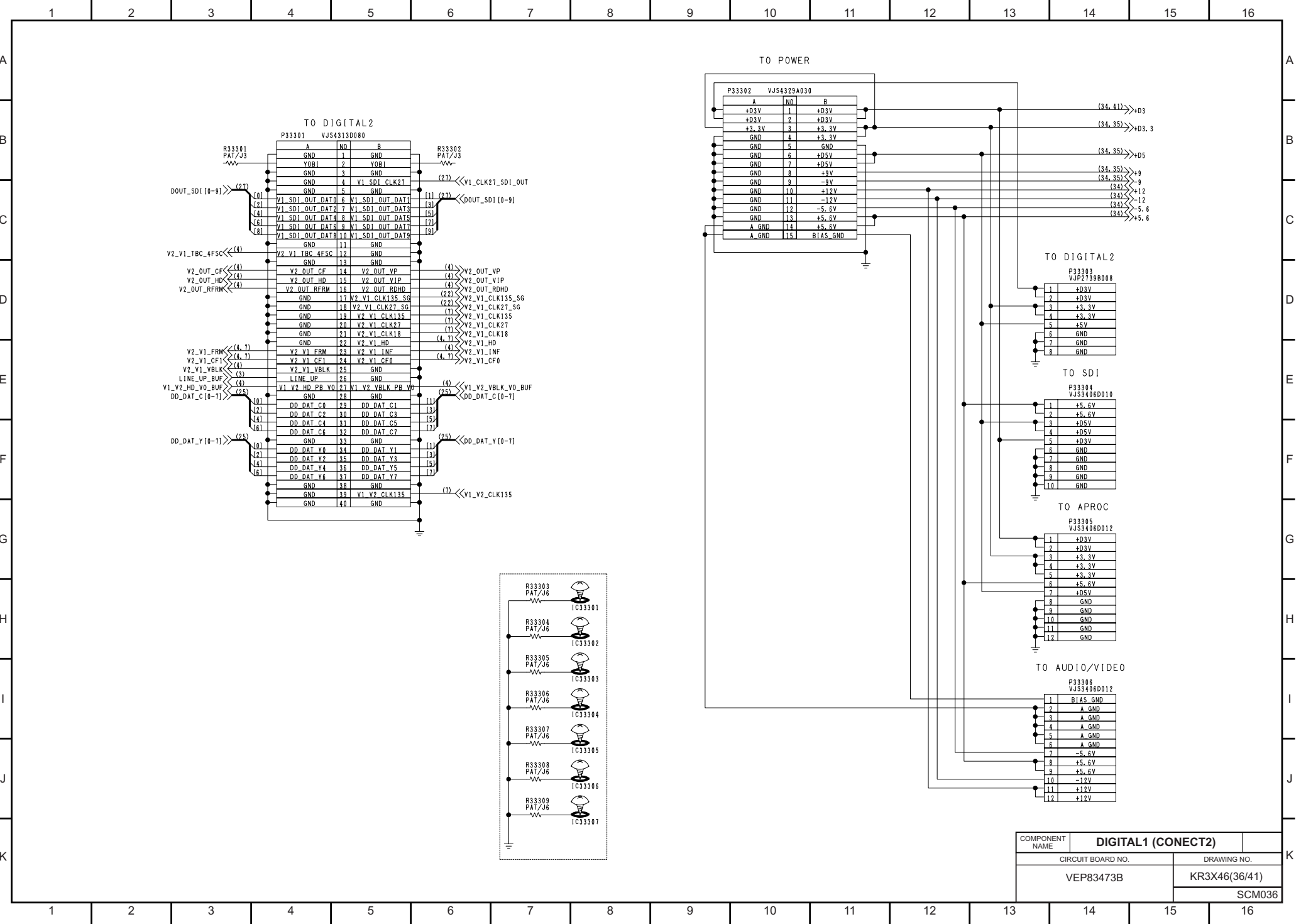
COMPONENT NAME	DIGITAL1 (POWER)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(34/41)
SCM034		





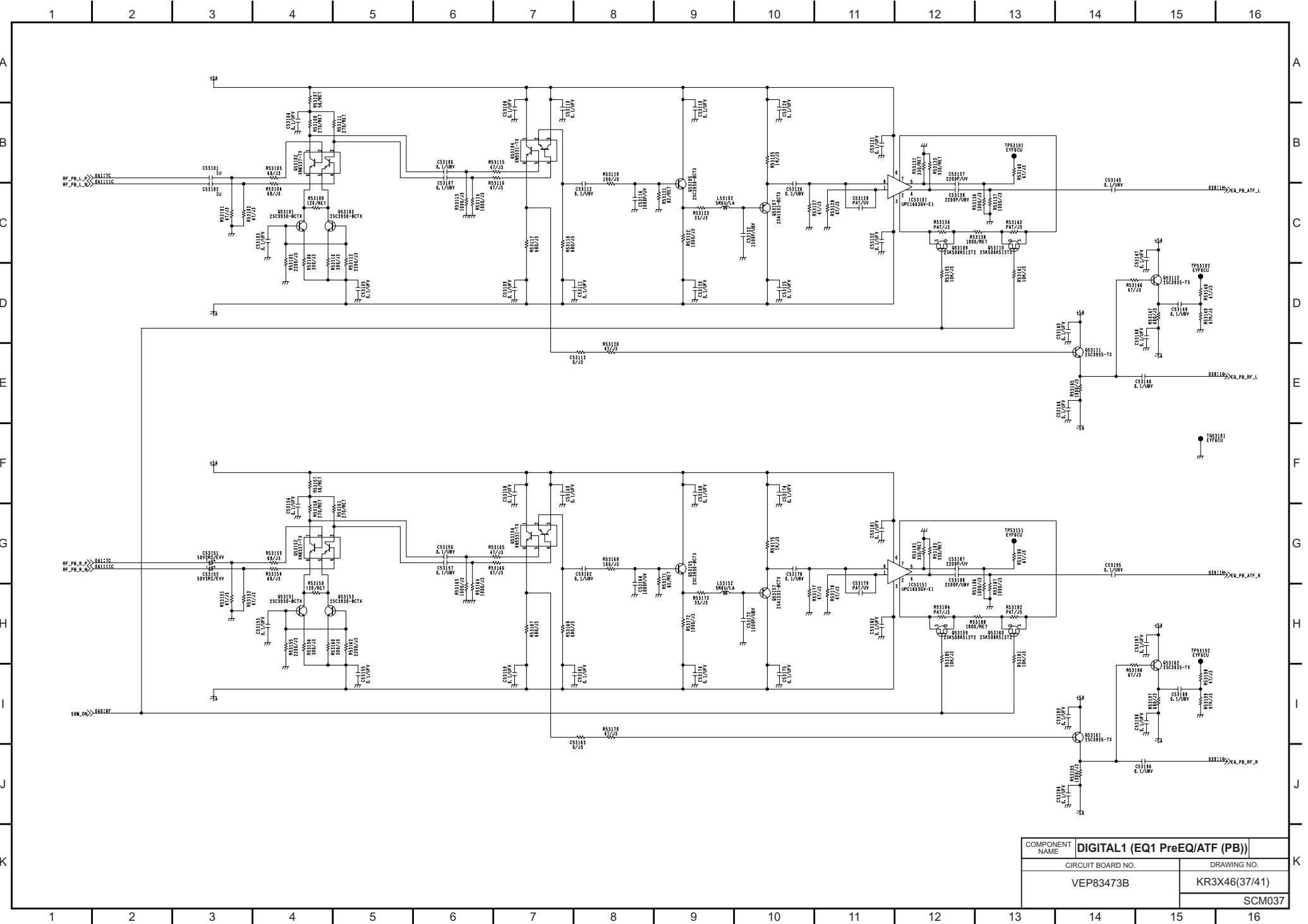
COMPONENT NAME		DIGITAL1 (CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(35/41)	
		SCM035	





COMPONENT NAME		DIGITAL1 (CONECT2)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(36/41)	
		SCM036	



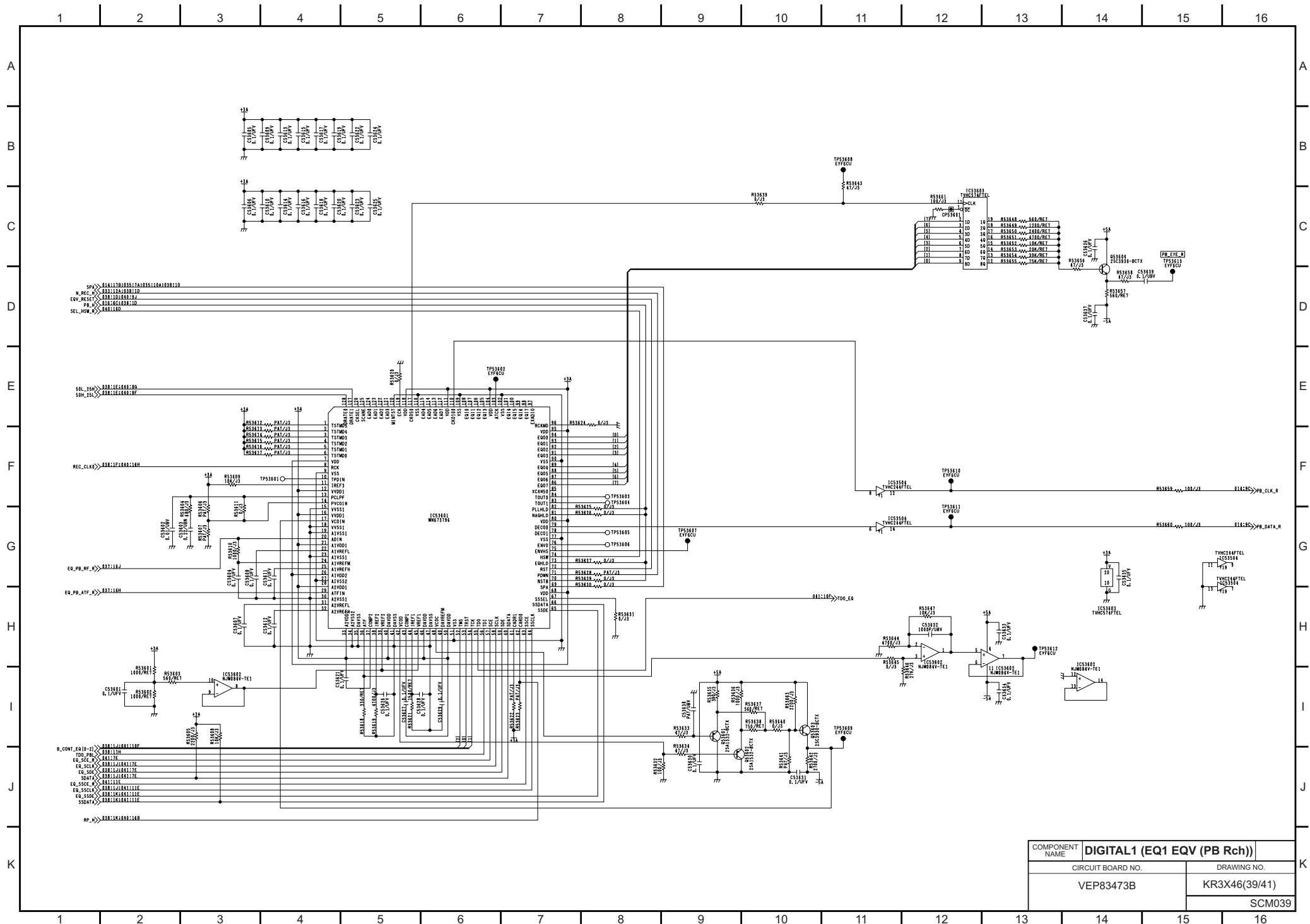


COMPONENT NAME		DIGITAL1 (EQ1 PreEQ/ATF (PB))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(37/41)	
		SCM037	





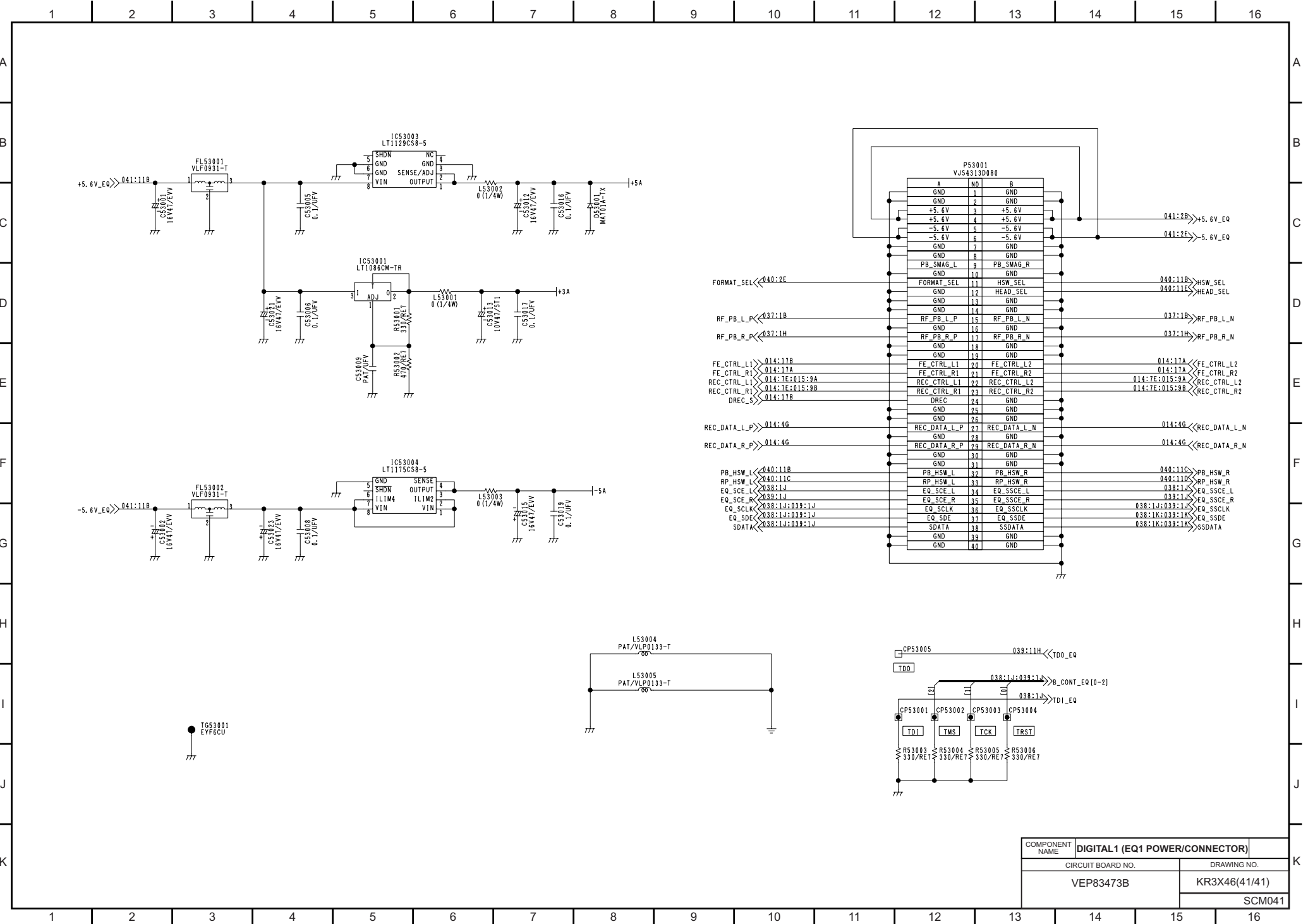












COMPONENT NAME	DIGITAL1 (EQ1 POWER/CONNECTOR)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP8X473B		KR3X46(41/41)
SCM041		



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# SECTION 7

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## CIRCUIT BOARD DIAGRAMS

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**NOTE:**


BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST.

**CAUTION**

THE  MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

**IMPORTANT SAFETY NOTICE:**

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

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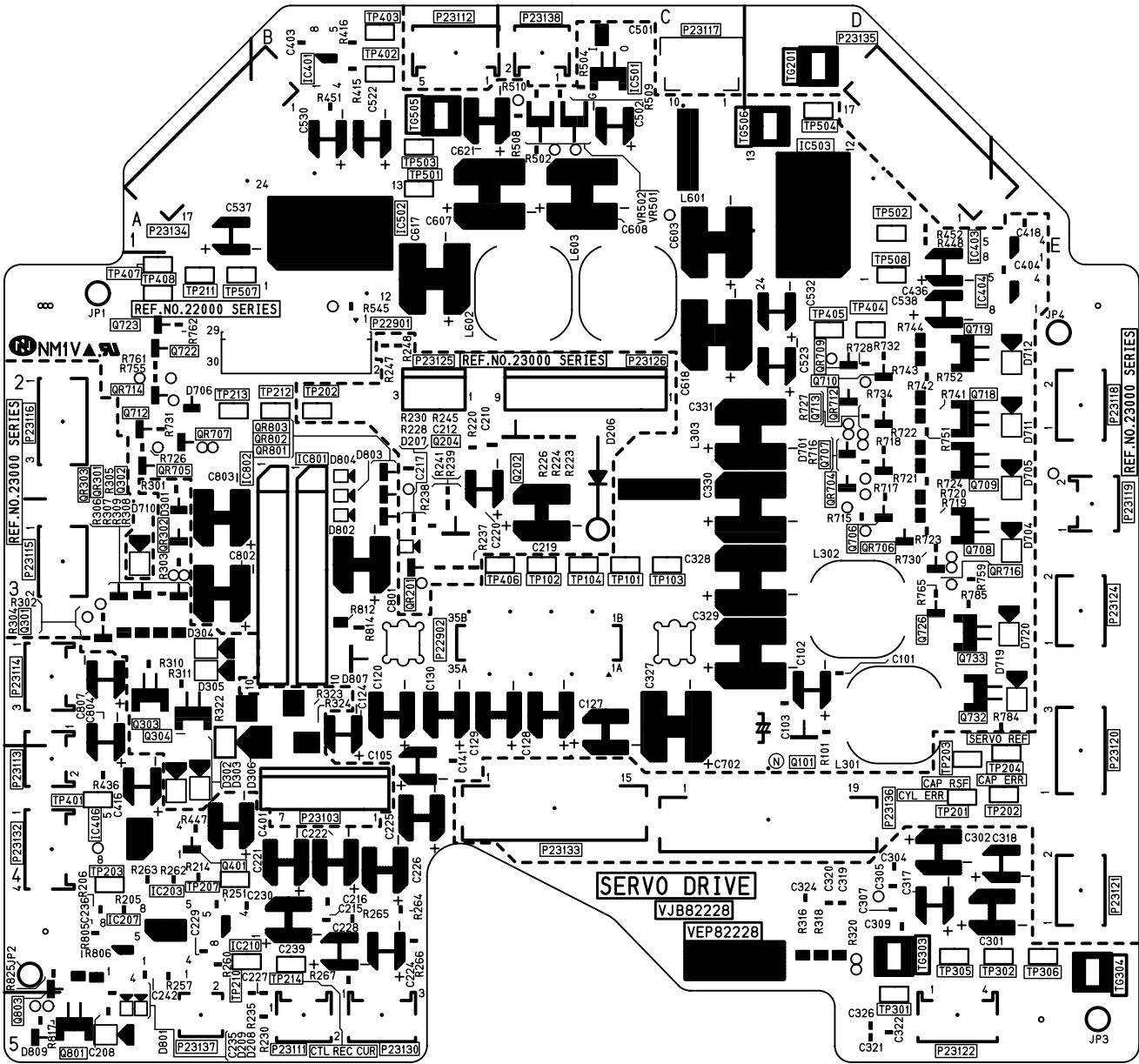
DISP. CONT. P.C.BOARD (VEP86291A).....	CBA-16
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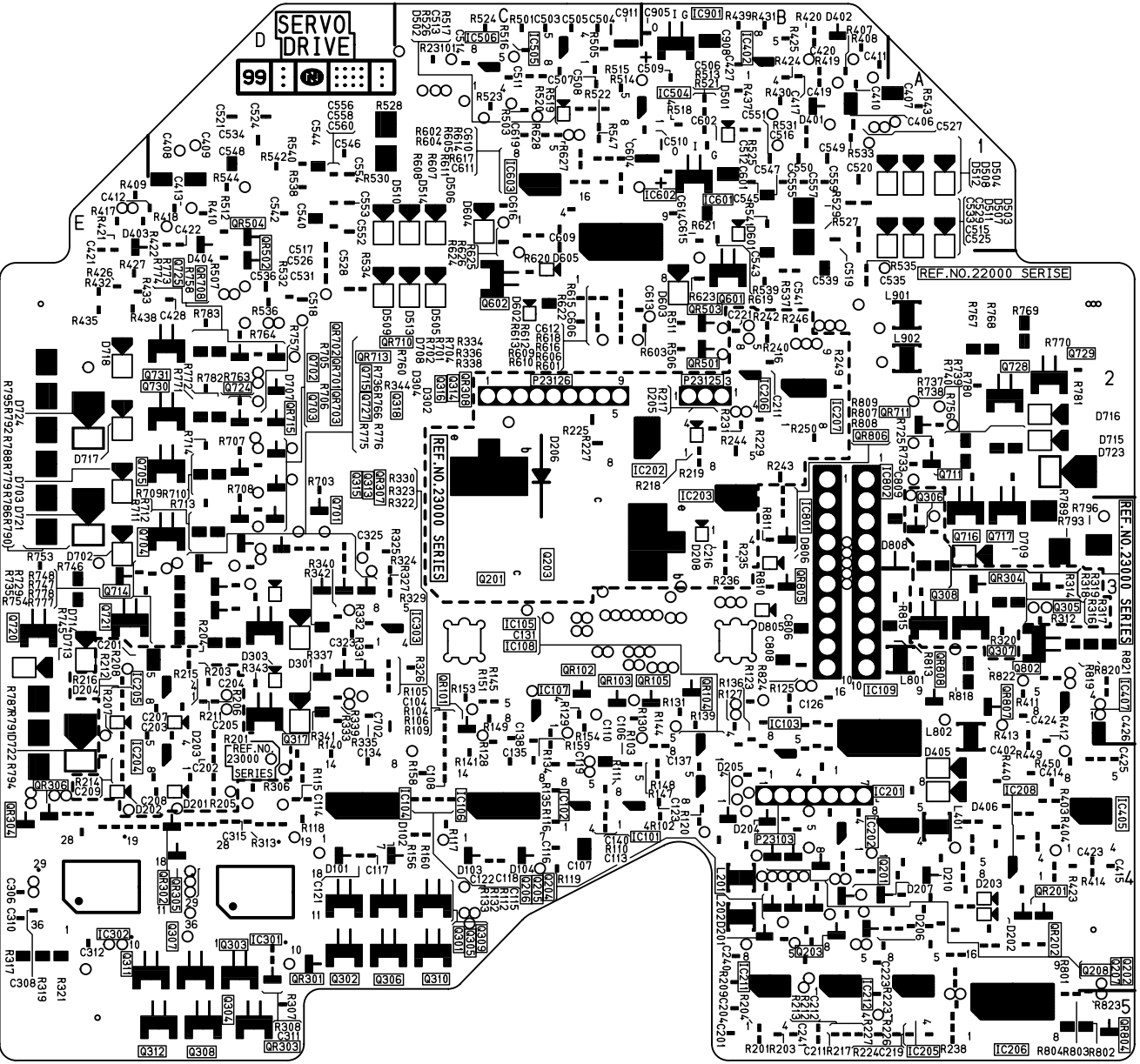
SERVO DRIVE P.C. BOARD (VEP82228A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC22203	A4	P23113	A4	P23135	D1	Q22726	D3	QR22714	A2	TP22104	C3	TP22405	D2
IC22207	A4	P23114	A3	P23136	D4	Q22732	E3	QR22716	D3	TP22202	B2	TP22406	C3
IC22210	A4	P23115	A3	P23137	A5	Q22733	D3	QR22801	B3	TP22203	A4	TP22407	A2
IC22401	B1	P23116	A2	P23138	C1	Q22801	A5	QR22802	B2	TP22207	A4	TP22408	A2
IC22403	E2	P23117	C1	Q22101	D3	Q22803	A4	QR22803	B2	TP22210	B4	TP22501	B1
IC22404	E2	P23118	E2	Q22401	A4	Q23202	C2	QR23201	B3	TP22211	A2	TP22502	D1
IC22406	A4	P23119	E3	Q22706	D3	Q23204	B3	QR23301	A3	TP22212	B2	TP22503	B1
IC22501	C1	P23120	E4	Q22707	D2	Q23301	A3	QR23302	A3	TP22213	A2	TP22504	D1
IC22502	B1	P23121	E4	Q22708	D3	Q23302	A3	QR23303	A3	TP22214	B4	TP22507	A2
IC22503	D1	P23122	D5	Q22709	D2	Q23303	A3	TG22303	D4	TP22301	D4	TP22508	D2
IC22801	B2	P23124	E3	Q22710	D2	Q23304	A3	TG22304	E4	TP22302	E4	TP23201	D4
IC22802	B2	P23125	B2	Q22712	A2	QR22704	D2	TG22505	B1	TP22305	D4	TP23202	E4
P22901	B2	P23126	C2	Q22713	D2	QR22705	A2	TG22506	D1	TP22306	E4	TP23203	D4
P22902	C3	P23130	B5	Q22718	D2	QR22706	D3	TG23201	D1	TP22401	A4	TP23204	E4
P23103	B4	P23132	A4	Q22719	D2	QR22707	A2	TP22101	C3	TP22402	B1	VR22501	C1
P23111	B5	P23133	C4	Q22722	A2	QR22709	D2	TP22102	C3	TP22403	B1	VR22502	C1
P23112	B1	P23134	A1	Q22723	A2	QR22712	D2	TP22103	C3	TP22404	D2		

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IC22102	C4	IC22402	B1	Q22203	B4	Q22313	D3	Q22720	E3	QR22103	C3	QR22702	D2
IC22103	B4	IC22405	A4	Q22204	B4	Q22314	D3	Q22721	E3	QR22104	B3	QR22703	D3
IC22104	D4	IC22407	A3	Q22205	B4	Q22315	D3	Q22724	D2	QR22105	B3	QR22708	D2
IC22105	B4	IC22504	B1	Q22206	B4	Q22316	D3	Q22725	D2	QR22201	A4	QR22710	D3
IC22106	C4	IC22505	C1	Q22207	B4	Q22317	D3	Q22727	D3	QR22202	A4	QR22711	A2
IC22107	C3	IC22506	C1	Q22208	B4	Q22318	D3	Q22728	A2	QR22301	D4	QR22713	D3
IC22108	B4	IC22601	B1	Q22301	D4	Q22601	B2	Q22729	A2	QR22302	D4	QR22715	D2
IC22109	B4	IC22602	C2	Q22302	D4	Q22602	C2	Q22730	D2	QR22303	D4	QR22804	A5
IC22201	A4	IC22603	C1	Q22303	D4	Q22701	D3	Q22731	D2	QR22304	E4	QR22805	B3
IC22202	B4	IC22901	B1	Q22304	D5	Q22702	D2	Q22802	A3	QR22305	D4	QR22806	B3
IC22205	A5	IC23202	B2	Q22305	C4	Q22703	D3	Q23201	C3	QR22306	E4	QR22807	A3
IC22206	A5	IC23203	B2	Q22306	C4	Q22704	D3	Q23203	C3	QR22307	D3	QR22808	A3
IC22208	A4	IC23204	D4	Q22307	D4	Q22705	D2	Q23305	A3	QR22308	D3	QR23304	A3
IC22211	B5	IC23205	D3	Q22308	D5	Q22711	A2	Q23306	A3	QR22501	B2		
IC22212	B5	IC23206	B2	Q22309	C4	Q22714	E3	Q23307	A3	QR22502	D2		
IC22301	D4	IC23207	B2	Q22310	C4	Q22715	D3	Q23308	A3	QR22503	B2		
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(COMPONENT SIDE)

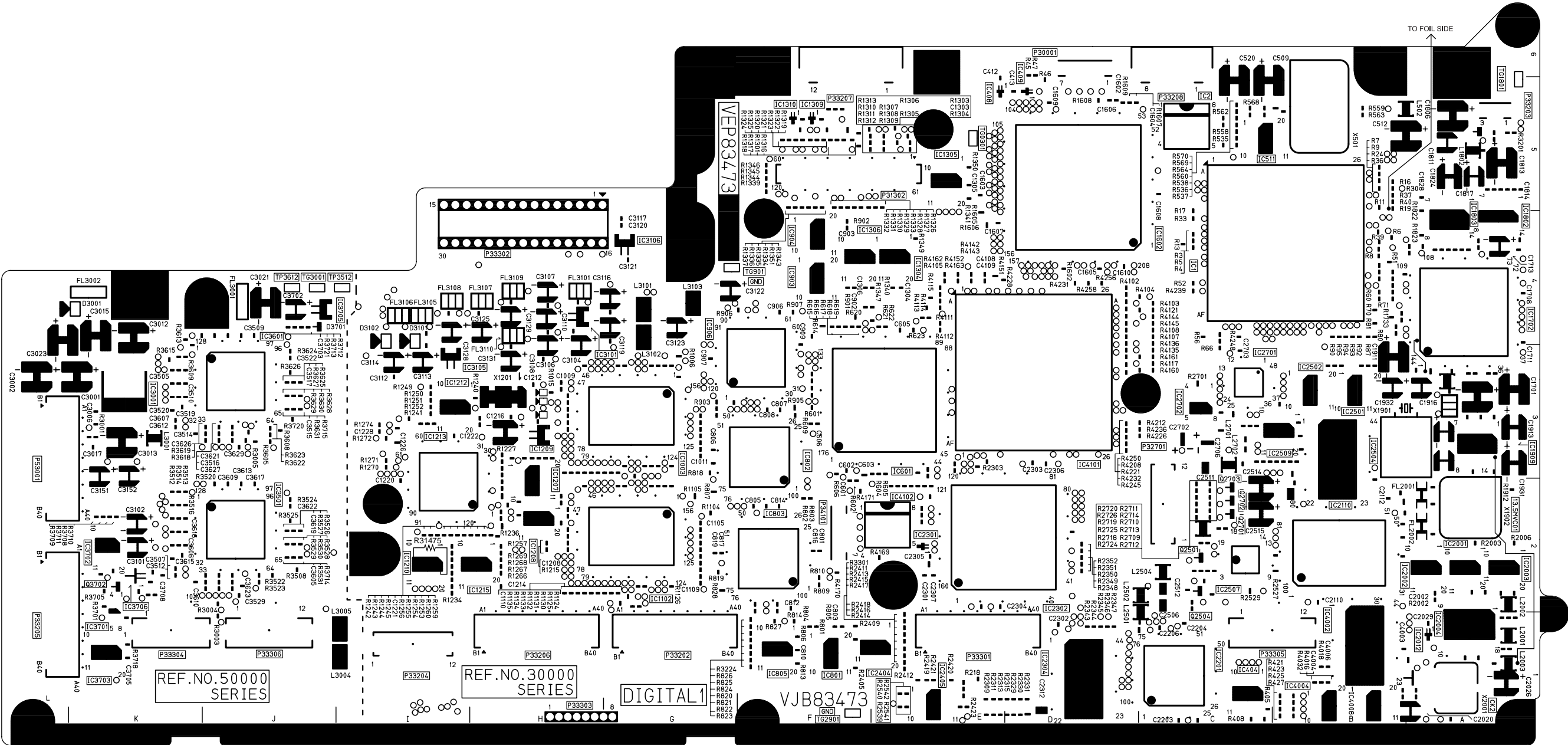


(FOIL SIDE)



## DIGITAL 1 P.C. BOARD (VEP83473B)

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IC30404	C1	IC31210	I2	IC32004	A1	IC33105	I3	P33202	G1	Q32703	C2
IC30408	E5	IC31212	I3	IC32012	A1	IC33106	G4	P33203	A5	Q53702	K2
IC30409	D5	IC31213	I2	IC32110	B2	IC34002	B1	P33204	I1	TG30301	E5
IC30511	C5	IC31215	H2	IC32201	C1	IC34004	B1	P33205	L1	TG30901	F4
IC30601	E3	IC31304	E4	IC32301	E2	IC34008	B1	P33206	H1	TG31801	A5
IC30801	F1	IC31305	E5	IC32302	D2	IC34101	D3	P33207	F6	TG32901	F1
IC30802	F3	IC31306	F4	IC32304	D1	IC53001	K3	P33208	C6	TG53001	J4
IC30803	F2	IC31309	F5	IC32404	F1	IC53501	J2	P33301	E1	TP53512	I4
IC30805	F1	IC31310	F5	IC32405	E1	IC53601	J3	P33304	K1	TP53612	J4
IC30903	F4	IC31602	D5	IC32501	B3	IC53701	K1	P33305	B1	X30501	B6
IC30904	F4	IC31702	A4	IC32502	B3	IC53702	K2	P33306	J1	X31201	H3
IC30906	F3	IC31802	A4	IC32504	B3	IC53703	K1	P34101	F2	X31901	B3
IC31003	G3	IC31803	A4	IC32507	C2	IC53705	J4	P53001	L3	X31902	A2
IC31102	G2	IC31909	A3	IC32509	B3	IC53706	K2	Q32501	C2	X32001	A1
IC31207	H2	IC32001	A2	IC32701	C3	P30001	D5	Q32504	C2		
IC31208	H2	IC32002	A2	IC32702	C3	P31302	F5	Q32701	C2		

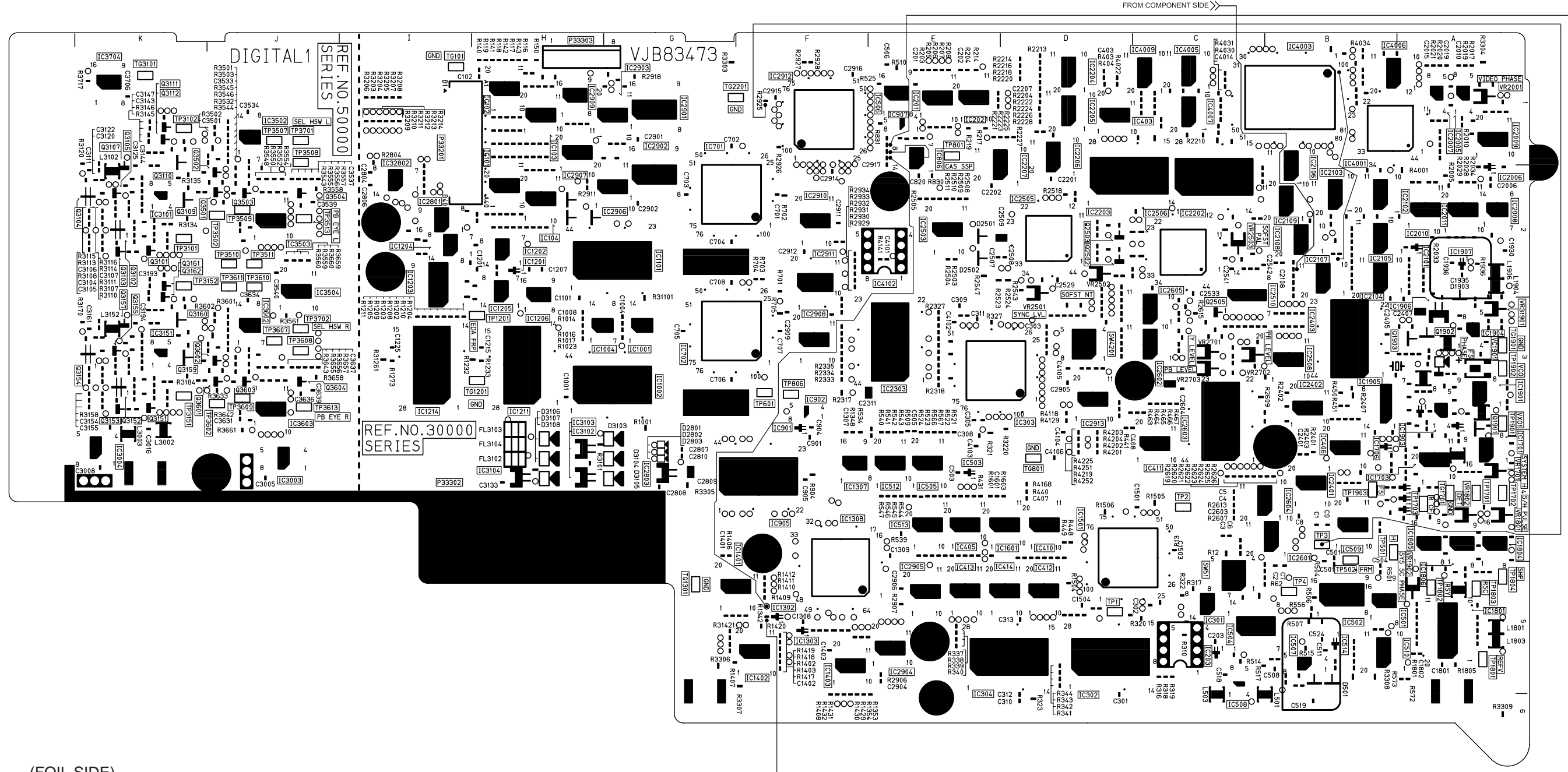


(COMPONENT SIDE)



DIGITAL 1 P.C. BOARD (VEP83473B)

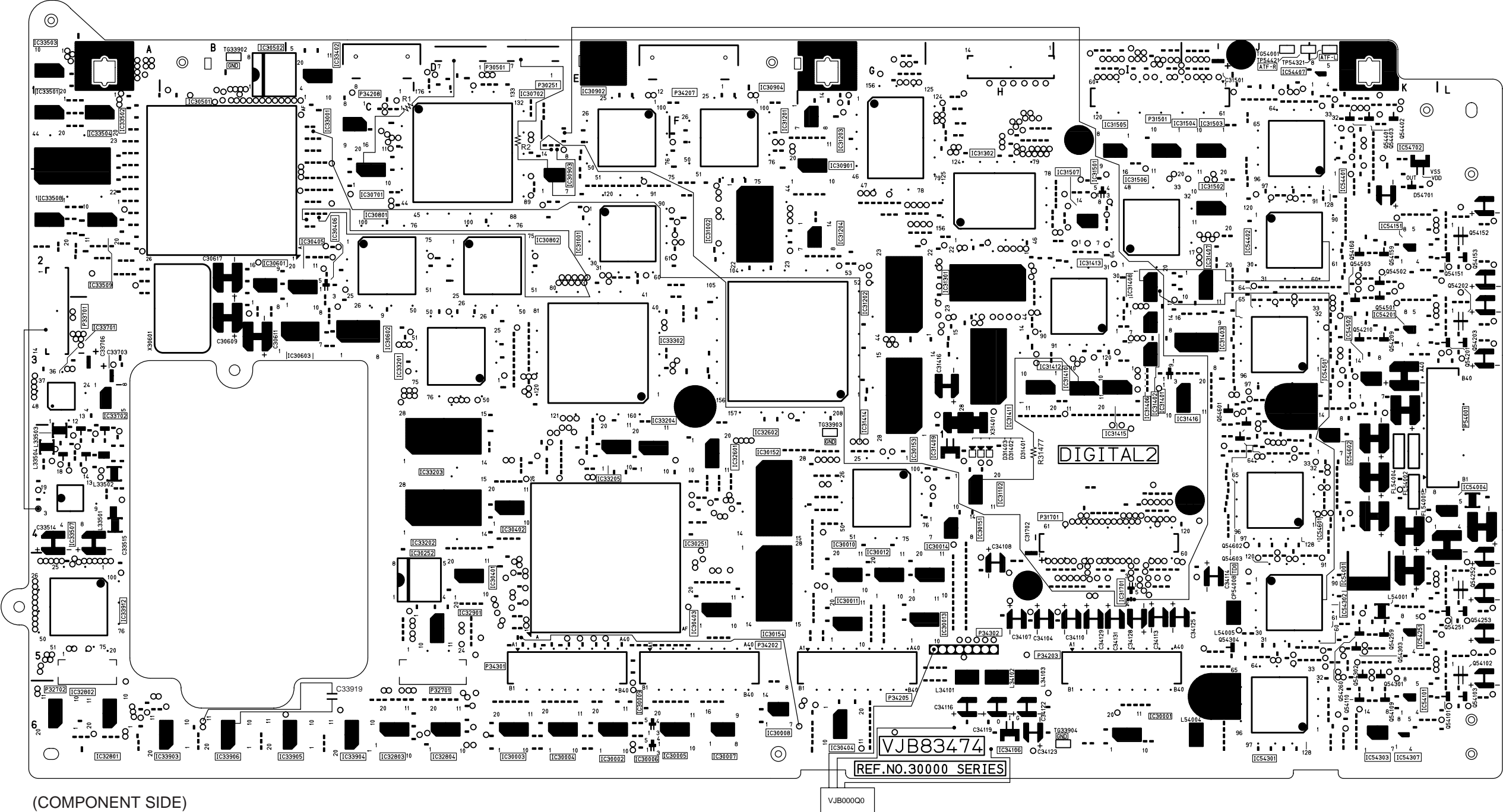
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IC30102	H1	IC30501	B5	IC30905	F4	IC31401	F5	IC31904	A3	IC32107	B2	IC32601	B4	IC32911	F2	IC34009	C1	Q32503	D2	Q53159	K3	TG31701	A4	TP31802	A5	TP53509	J2	VC31901	A3
IC30103	H1	IC30502	B5	IC30907	E1	IC31402	F5	IC31905	B3	IC32108	B2	IC32602	C3	IC32912	F1	IC53003	J4	Q32505	C3	Q53160	K3	TG31901	A3	TP31803	A5	TP53510	J2	VR31701	A4
IC30104	H2	IC30503	E4	IC31001	G3	IC31403	F5	IC31906	A3	IC32109	B2	IC32603	C3	IC32913	D3	IC53004	K4	Q53101	K2	Q53161	K2	TG32201	F1	TP31804	A5	TP53511	J2	VR31801	A4
IC30201	E1	IC30504	C5	IC31002	G3	IC31501	C4	IC31907	A2	IC32202	C2	IC32604	B4	IC33102	H4	IC53101	K2	Q53102	K2	Q53162	K3	TG53101	K1	TP31901	A3	TP53513	J2	VR31802	A4
IC30202	E1	IC30505	E4	IC31004	G3	IC31601	D4	IC31908	A3	IC32203	C2	IC32605	C3	IC33103	H4	IC53151	K3	Q53103	K2	Q53501	K2	TP30001	D5	TP31902	A3	TP53601	K3	VR31901	A3
IC30203	C5	IC30506	E1	IC31101	G2	IC31701	A4	IC32005	A1	IC32204	D1	IC32801	I2	IC33104	H4	IC53502	J1	Q53104	K2	Q53502	K2	TP30002	C4	TP31903	B4	TP53602	J3	VR31902	A5
IC30301	C5	IC30507	B5	IC31201	H2	IC31703	A4	IC32006	A2	IC32205	D1	IC32802	I2	IC33301	F1	IC53503	J2	Q53105	K2	Q53503	J2	TP30003	B4	TP53101	K2	TP53603	J3	VR32001	A1
IC30302	D5	IC30508	C5	IC31202	H2	IC31704	A4	IC32007	A1	IC32206	D1	IC32803	G4	IC33302	A1	IC53504	J2	Q53107	K2	Q53504	J2	TP30004	B5	TP53102	K1	TP53604	J3	VR32501	D2
IC30303	E3	IC30509	B4	IC31203	I2	IC31705	A4	IC32008	A2	IC32207	D1	IC32901	G1	IC33303	G4	IC53602	J3	Q53109	K2	Q53601	K3	TP30501	A4	TP53151	K3	TP53605	J3	VR32502	D2
IC30304	D5	IC30510	B5	IC31204	I2	IC31706	B4	IC32009	A1	IC32303	E3	IC32902	G2	IC33304	G5	IC53603	J3	Q53110	K1	Q53602	K3	TP30502	B4	TP53152	K2	TP53606	J3	VR32503	C2
IC30403	D1	IC30512	E4	IC31205	H2	IC31707	A4	IC32010	A2	IC32401	B4	IC32903	G1	IC33305	F6	IC53704	K1	Q53111	K1	Q53603	J3	TP30601	F3	TP53501	K2	TP53607	J3	VR32701	C3
IC30405	E4	IC30513	E4	IC31206	H2	IC31801	A5	IC32011	A2	IC32402	B3	IC32904	E5	IC33306	B6	P33201	I1	Q53112	K1	Q53604	J3	TP30801	E1	TP53502	J2	TP53608	J3	VR32702	C3
IC30406	B4	IC30514	B5	IC31211	H3	IC31804	A4	IC32101	A2	IC32403	B3	IC32905	E5	IC33307	A6	P33302	H4	Q53151	K3	SW30051	C5	TP30806	F3	TP53503	J2	TP53609	J3	VR32703	C3
IC30410	D4	IC30701	G2	IC31214	I3	IC31805	A4	IC32102	B2	IC32503	E2	IC32906	G2	IC34001	B1	P33303	G1	Q53152	K3	SW34201	D3	TP31201	H3	TP53504	J2	TP53610	J2		
IC30411	C4	IC30702	G3	IC31302	F5	IC31806	A4	IC32103	B2	IC32505	D2	IC32907	H1	IC34003	B1	Q31901	A3	Q53153	K3	TG30101	I1	TP31701	A4	TP53505	J2	TP53611	J2		
IC30412	D5	IC30806	E1	IC31303	F5	IC31901	A3	IC32104	B2	IC32506	C2	IC32908	F3	IC34005	C1	Q31902	A3	Q53154	K3	TG30801	D4	TP31702	A4	TP53506	J2	TP53613	J3		
IC30413	E5	IC30901	F3	IC31307	F4	IC31902	A3	IC32105	B2	IC32508	B3	IC32909	H1	IC34006	A1	Q31903	A3	Q53155	K3	TG31201	H3	TP31703	A4	TP53507	J1	TP53701	J1		





DIGITAL 2 P.C. BOARD (VEP83474B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC30001	I6	IC30154	F5	IC30902	E1	IC31408	I2	IC32601	F4	IC33503	A1	IC54201	K3	P31701	I4	Q54102	L5	Q54259	K5	TG33904	I6
IC30002	E6	IC30251	E4	IC30903	E1	IC31409	H4	IC32602	F3	IC33504	A1	IC54251	K5	P32701	D5	Q54103	L5	Q54260	K5	TG54001	J1
IC30003	D6	IC30401	D5	IC30904	F1	IC31410	I3	IC32801	A6	IC33507	A4	IC54301	J6	P32702	A5	Q54109	K6	Q54301	K5	TP54310	K4
IC30004	E6	IC30402	D4	IC31001	E2	IC31411	H3	IC32802	A6	IC33508	A2	IC54302	J5	P33701	A3	Q54110	K6	Q54302	K5	TP54321	K1
IC30005	F6	IC30403	F5	IC31002	F2	IC31412	H3	IC32803	C6	IC33509	A2	IC54303	K6	P34202	F5	Q54151	L2	Q54303	K5	TP54402	J2
IC30006	E6	IC30404	G6	IC31102	H4	IC31413	I3	IC32804	D6	IC33701	A3	IC54307	K6	P34203	I5	Q54152	L2	Q54304	J5	TP54421	K1
IC30007	F6	IC30405	C2	IC31201	F1	IC31414	G3	IC32901	D5	IC33702	A3	IC54401	J1	P34205	G5	Q54153	L2	Q54401	K1	TP54503	J3
IC30008	F6	IC30406	C2	IC31202	G2	IC31415	I3	IC33001	C1	IC33903	B6	IC54402	J2	P34206	H1	Q54159	K2	Q54402	K1	TP54601	K4
IC30009	E6	IC30501	B2	IC31203	G1	IC31416	J3	IC33201	D3	IC33904	C6	IC54407	K1	P34207	F1	Q54160	K2	Q54403	K1	TP54605	J4
IC30010	G5	IC30601	B2	IC31204	G2	IC31501	I2	IC33202	D4	IC33905	C6	IC54501	J3	P34208	C1	Q54201	L3	Q54501	K2	X30601	B2
IC30011	G5	IC30602	C3	IC31301	H2	IC31502	J2	IC33203	D4	IC33906	B6	IC54502	K3	P34301	E5	Q54202	L3	Q54502	K2	X31401	H3
IC30012	G5	IC30603	C3	IC31302	H2	IC31503	J1	IC33204	E4	IC33912	A5	IC54601	J4	P54001	K3	Q54203	L3	Q54503	K2		
IC30013	H5	IC30701	C1	IC31401	I3	IC31504	I1	IC33205	E4	IC334106	H6	IC54602	K4	Q33501	A4	Q54209	K3	Q54601	J3		
IC30014	H5	IC30702	D1	IC31402	I3	IC31505	I1	IC33302	E3	IC54001	K5	IC54702	K1	Q33502	A3	Q54210	K3	Q54602	J3		
IC30151	H4	IC30801	C2	IC31403	J3	IC31506	I2	IC33402	C1	IC54004	K4	P30251	D1	Q33503	A3	Q54251	L5	Q54603	J4		
IC30152	F4	IC30802	D2	IC31406	I3	IC31507	I2	IC33501	A1	IC54101	K6	P30501	D1	Q33504	A4	Q54252	L5	TG33902	B1		
IC30153	G4	IC30901	G1	IC31407	J2	IC31701	I5	IC33502	A1	IC54151	K2	P31501	I1	Q54101	L5	Q54253	L5	TG33903	G3		

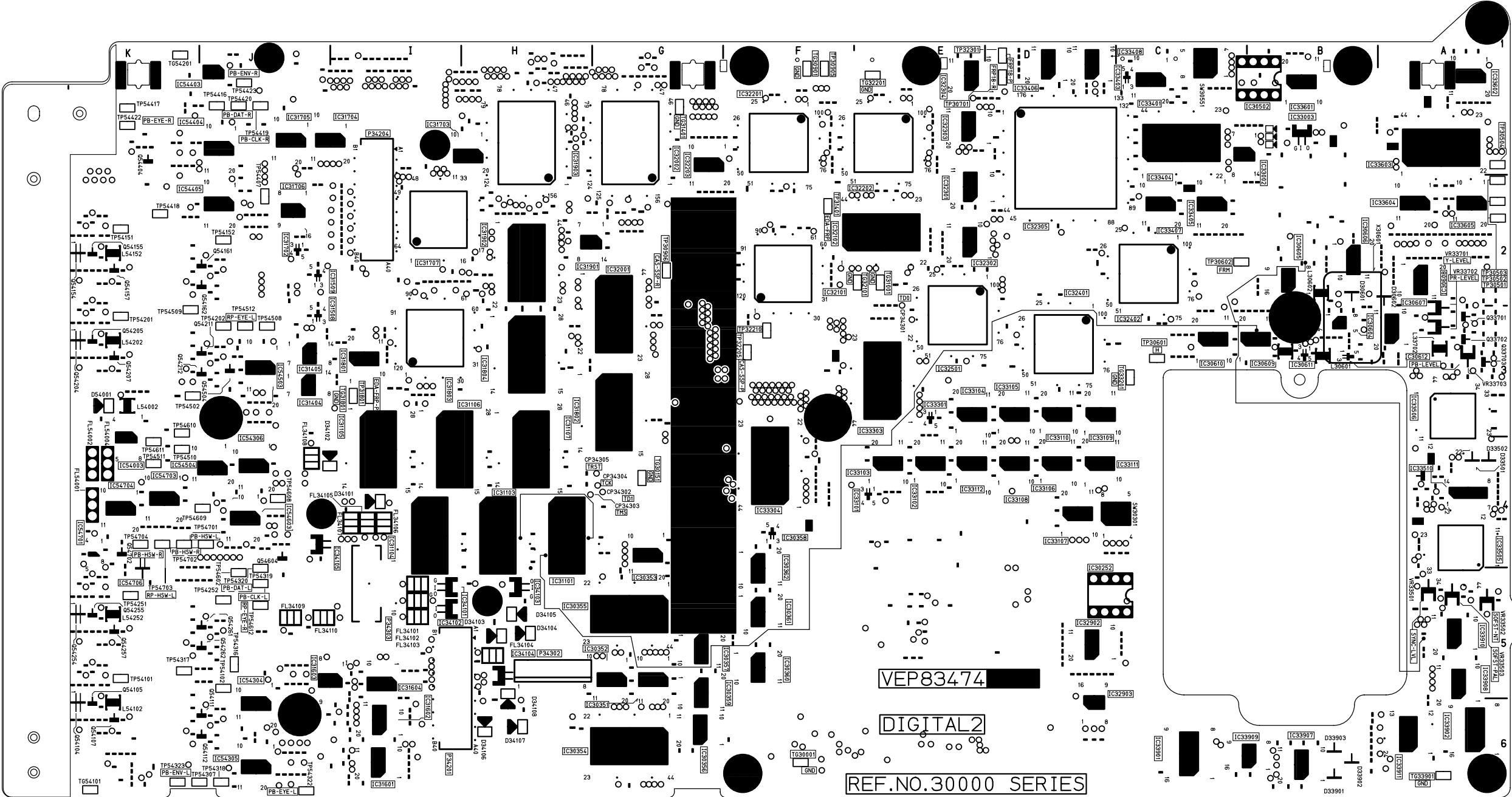


(COMPONENT SIDE)



DIGITAL 2 P.C. BOARD (VEP83474B)

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IC30351	G5	IC30610	C3	IC31703	H1	IC32203	G2	IC33106	D4	IC33506	A3	IC34105	J4	P34303	I5	Q54211	J3	TG31801	I3	TP32205	F3	TP54308	J4	TP54406	K2	TP54502	K3	TP54611	K4
IC30352	G5	IC30611	B3	IC31704	I1	IC32301	E2	IC33107	D4	IC33510	A4	IC54003	K4	Q33505	A4	Q54212	J3	TG32101	E2	TP32210	F3	TP54309	K4	TP54407	J2	TP54504	J2	TP54612	J5
IC30353	G4	IC30612	B3	IC31705	J1	IC32302	E2	IC33108	D4	IC33601	B1	IC54304	J6	Q33701	A3	Q54254	K5	TG32201	E1	TP32301	D1	TP54311	J6	TP54408	K2	TP54505	J2	TP54701	J4
IC30354	G6	IC31101	H4	IC31706	J2	IC32303	E1	IC33109	D3	IC33602	A1	IC54305	J6	Q33702	A3	Q54255	K5	TG33201	C3	TP54101	K5	TP54312	J6	TP54409	K2	TP54506	J2	TP54702	K4
IC30355	G5	IC31103	H4	IC31707	I2	IC32304	E1	IC33110	D3	IC33603	A1	IC54306	J4	Q33703	A3	Q54257	K5	TG33901	A6	TP54102	J5	TP54313	J6	TP54410	K2	TP54507	J2	TP54703	K4
IC30356	G6	IC31104	I4	IC31801	I3	IC32305	D1	IC33111	D4	IC33604	A2	IC54403	J1	Q54104	K6	Q54261	J5	TG54101	K6	TP54151	K2	TP54314	J6	TP54411	J2	TP54508	J3	TP54704	K4
IC30357	G5	IC31105	I4	IC31802	G3	IC32401	D3	IC33112	E4	IC33605	A2	IC54404	J1	Q54105	K6	Q54262	J5	TG54201	K1	TP54152	J2	TP54315	J6	TP54412	J2	TP54509	K3	VR33501	A5
IC30358	F4	IC31106	I4	IC31803	I3	IC32402	C2	IC33301	E3	IC33901	C6	IC54405	J2	Q54107	K6	Q54404	K1	TP30501	A2	TP54201	K3	TP54316	J5	TP54413	J2	TP54510	K4	VR33502	A5
IC30359	G5	IC31107	H4	IC31804	H3	IC32501	E3	IC33303	E3	IC33902	A6	IC54503	J3	Q54111	J6	Q54504	J3	TP30502	A2	TP54202	J3	TP54317	K5	TP54414	J2	TP54511	K4	VR33503	A5
IC30360	F5	IC31404	J3	IC31901	G2	IC32902	D5	IC33304	F4	IC33907	B6	IC54504	J4	Q54112	J6	Q54604	J4	TP30503	A2	TP54251	K5	TP54318	J6	TP54415	J1	TP54512	J3	VR33701	A2
IC30361	F5	IC31405	J3	IC31902	H2	IC32903	D6	IC33401	C1	IC33908	A5	IC54603	J4	Q54154	K2	Q54702	K4	TP30504	A2	TP54252	J5	TP54319	J5	TP54416	J1	TP54602	J5	VR33702	A3
IC30362	F4	IC31508	J3	IC31903	H1	IC33002	C1	IC33403	C1	IC33909	B6	IC54701	K4	Q54155	K2	SW30301	C4	TP30601	C3	TP54301	K6	TP54320	J4	TP54417	K1	TP54603	J4	VR33703	A3
IC30604	B3	IC31509	J2	IC32001	G3	IC33003	B1	IC33404	C1	IC33910	A5	IC54703	K4	Q54157	K2	SW30551	C1	TP30602	C2	TP54302	J4	TP54322	J6	TP54418	K2	TP54604	J4		
IC30605	B2	IC31601	I6	IC32002	G1	IC33101	E4	IC33405	C2	IC33911	A6	IC54704	K4	Q54161	J2	TG30001	F6	TP30701	D1	TP54303	J4	TP54323	K6	TP54419	J1	TP54606	J4		
IC30606	B2	IC31602	I6	IC32101	F2	IC33102	E4	IC33406	D1	IC34101	I5	IC54706	K4	Q54162	J2	TG30151	G4	TP30905	F1	TP54304	J4	TP54401	K2	TP54420	J1	TP54607	J4		
IC30607	A3	IC31603	I5	IC32102	E2	IC33103	E4	IC33407	C2	IC34102	I5	P34201	I5	Q54204	K3	TG30901	F1	TP30906	G2	TP54305	J4	TP54403	K2	TP54422	K1	TP54608	J4		
IC30608	A2	IC31604	I5	IC32201	F1	IC33104	E3	IC33408	D1	IC34103	H5	P34204	I2	Q54205	K3	TG31001	E2	TP31401	F2	TP54306	J4	TP54404	K2	TP54423	J1	TP54609	J4		
IC30609	B3	IC31702	J2	IC32202	E1	IC33105	D3	IC33505	A4	IC34104	H5	P34302	H5	Q54207	K3	TG31401	G1	TP31801	I3	TP54307	K6	TP54405	K2	TP54501	K3	TP54610	K3		

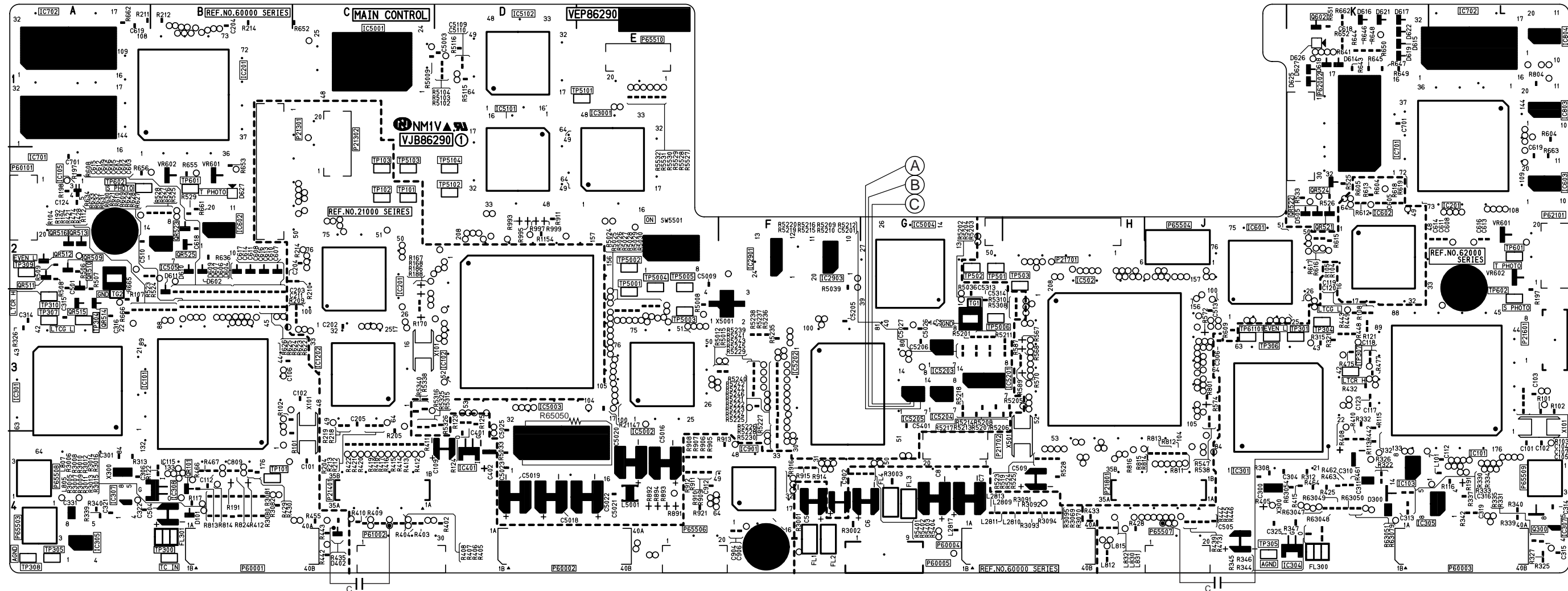


(FOIL SIDE)



MAIN CONTROL P.C. BOARD (VEP86290B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC21102	D3	IC60701	A1	IC65001	C1	P21801	J4	Q62300	L4	TG60001	G3	TP60602	A2	TP65103	C2
IC21201	C2	IC60702	A1	IC65002	E3	P60001	B4	Q62602	K1	TG60002	A2	TP61101	J3	TP65104	D2
IC21202	C3	IC62101	L3	IC65003	D4	P60002	D4	QR60101	B4	TP21101	C2	TP62301	K3	VR60601	B2
IC21401	D4	IC62103	K4	IC65004	G2	P60003	L4	QR60509	A2	TP21102	C2	TP62304	K3	VR60602	B2
IC21502	H3	IC62201	L2	IC65101	D2	P60004	H4	QR60510	A2	TP21103	C2	TP62305	J4	VR62601	L2
IC21601	J2	IC62301	J3	IC65102	D1	P60005	G4	QR60511	A2	TP21501	H2	TP62306	J3	VR62602	L2
IC21602	K2	IC62304	K4	IC65201	H3	P60101	A2	QR60512	A2	TP21502	G2	TP62307	K3	X21101	C3
IC21901	F4	IC62305	L4	IC65202	F3	P61002	C4	QR60513	A2	TP21503	H2	TP62601	L2	X21501	H4
IC60101	B3	IC62307	L4	IC65203	G3	P62002	K1	QR60514	A3	TP60101	B4	TP62602	L3	X60101	C4
IC60105	A2	IC62603	L2	IC65204	G3	P62101	L2	QR60515	A3	TP60300	B4	TP65001	E3	X60300	A4
IC60201	B1	IC62701	K1	IC65205	G3	P65503	A4	QR60516	A2	TP60304	A3	TP65002	E2	X62101	L3
IC60301	A3	IC62702	L1	P21301	B2	P65504	J2	QR60523	B2	TP60305	A4	TP65003	E3	X62300	J4
IC60305	A4	IC62803	L1	P21302	C1	P65506	E4	QR60525	B2	TP60307	A3	TP65004	E2	X65001	F3
IC60307	A4	IC62804	L1	P21401	C4	P65507	J4	QR62521	K2	TP60308	A4	TP65005	E2		
IC60308	B4	IC62901	F2	P21601	L3	P65508	A4	QR62522	K2	TP60309	A2	TP65006	H3		
IC60505	B2	IC62903	F2	P21701	H2	P65509	L4	QR62524	K2	TP60310	A3	TP65101	E1		
IC60602	B2	IC63001	E2	P21702	G4	P65510	E1	SW65501	E2	TP60601	B2	TP65102	D2		

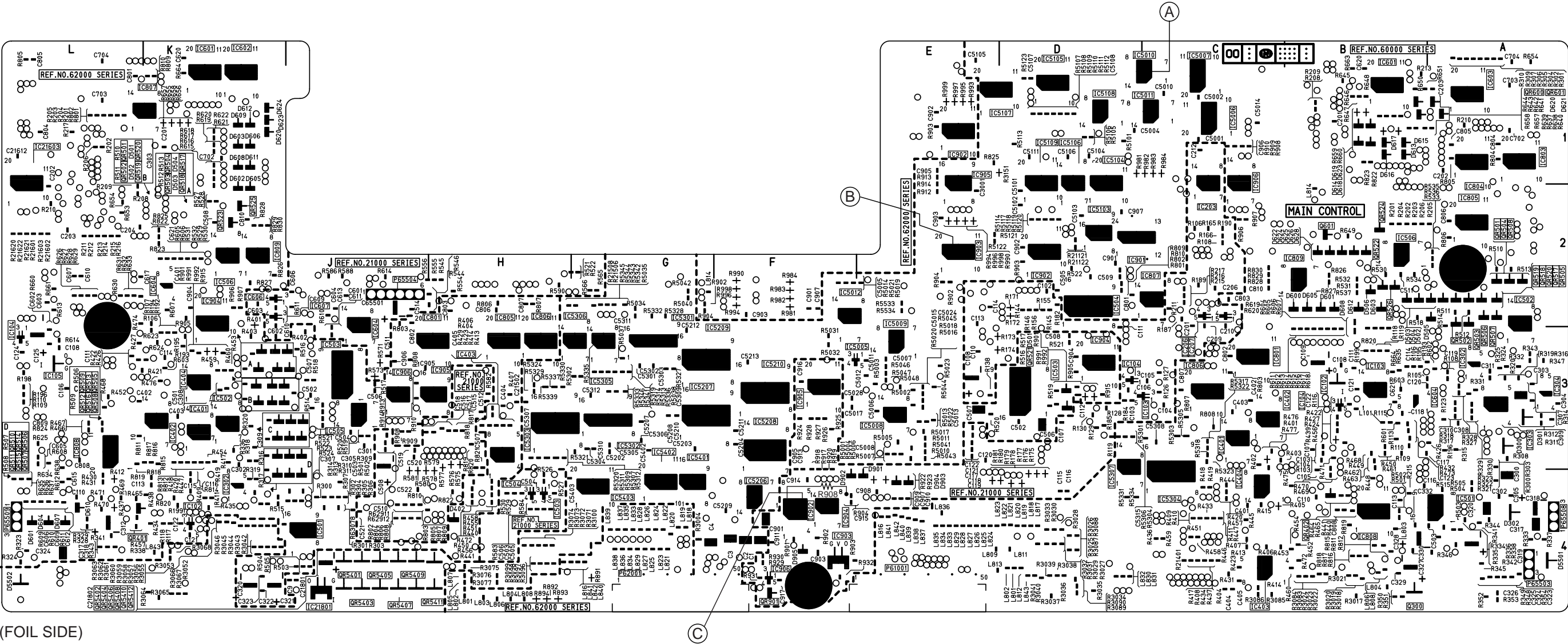


(COMPONENT SIDE)



MAIN CONTROL P.C. BOARD (VEP86290B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC21103	D3	IC60104	B3	IC60805	A2	IC62501	J4	IC65006	C1	IC65301	G3	QR60504	A2	QR62504	K3	QR65401	J4
IC21104	D3	IC60302	A3	IC60806	C3	IC62502	K3	IC65007	C1	IC65302	G3	QR60505	A2	QR62505	J3	QR65402	J4
IC21203	C2	IC60303	A3	IC60807	C2	IC62503	J3	IC65008	E3	IC65303	H3	QR60506	A2	QR62506	J3	QR65403	J4
IC21206	C2	IC60304	A3	IC60808	B4	IC62505	J3	IC65009	E3	IC65304	C4	QR60507	A2	QR62507	J4	QR65404	J4
IC21207	C2	IC60401	C3	IC60809	B2	IC62506	K2	IC65010	C1	IC65305	G3	QR60508	A2	QR62508	J3	QR65405	J4
IC21503	H4	IC60402	C3	IC60901	D2	IC62601	K1	IC65011	C1	IC65306	G3	QR60517	A2	QR62509	J3	QR65406	J4
IC21504	H4	IC60403	C4	IC60902	D2	IC62602	K1	IC65012	F2	IC65307	D3	QR60518	A2	QR62510	J3	QR65407	J4
IC21603	L2	IC60404	C4	IC60903	E2	IC62604	K2	IC65103	D2	IC65401	G4	QR60519	A2	QR62511	J4	QR65408	J4
IC21604	J3	IC60501	A4	IC60904	D3	IC62801	H3	IC65104	D2	IC65402	G4	QR60520	A2	QR62512	J3	QR65409	J4
IC21606	J2	IC60502	A2	IC60905	E2	IC62805	H3	IC65105	D1	IC65403	G4	QR60521	D3	QR62513	J3	QR65410	J4
IC21607	J2	IC60503	D3	IC60906	C2	IC62806	H3	IC65106	D2	P61001	E4	QR60522	B2	QR62514	J3	QR65411	H4
IC21801	J4	IC60504	D2	IC62102	K4	IC62807	K1	IC65107	D1	P62001	G4	QR60524	B2	QR62515	J4	QR65412	H4
IC21902	F4	IC60506	B2	IC62104	L3	IC62808	L3	IC65108	D1	P60300	B4	QR60526	B2	QR62516	J3		
IC21903	F4	IC60601	B1	IC62105	L3	IC62809	K2	IC65109	D2	Q60601	B2	QR60600	B1	QR62517	J3		
IC21904	F4	IC60603	A1	IC62302	K4	IC62902	E1	IC65206	F4	QR21901	F4	QR60601	A1	QR62518	J3		
IC21905	F3	IC60604	B3	IC62401	K3	IC62904	K2	IC65207	G3	QR60402	B4	QR62401	L4	QR62519	J3		
IC21906	F4	IC60801	C3	IC62402	K3	IC62905	H3	IC65208	F3	QR60501	A2	QR62501	K3	QR62520	J3		
IC60102	B3	IC60803	A1	IC62403	H3	IC62906	J3	IC65209	G3	QR60502	A2	QR62502	K3	QR62523	K2		
IC60103	B3	IC60804	A1	IC62404	K3	IC65005	F3	IC65210	F3	QR60503	A2	QR62503	K3	QR62525	K2		

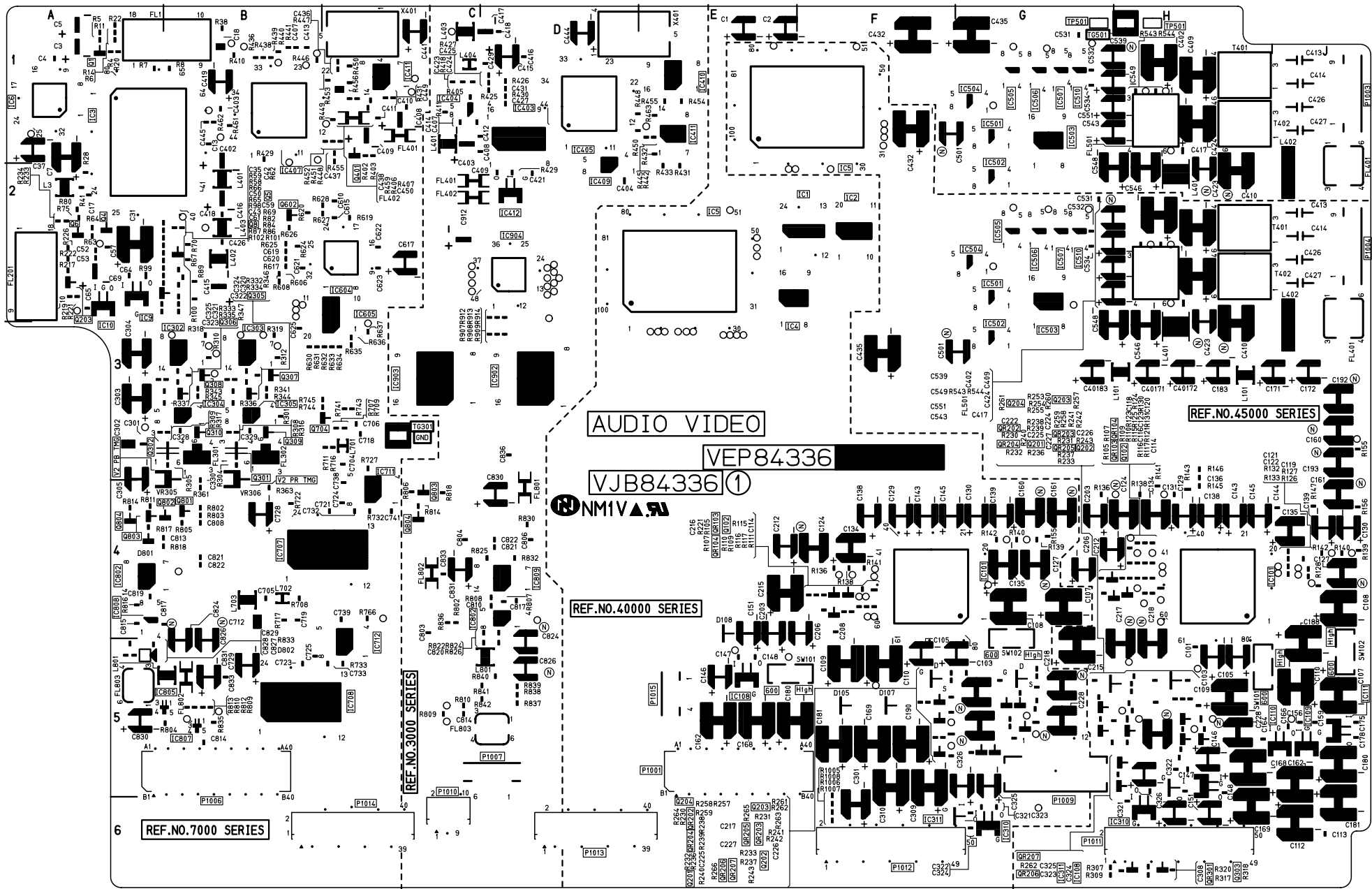


(FOIL SIDE)



AUDIO VIDEO P.C. BOARD (VEP84336B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3403	D1	IC40310	G6	IC45501	G2	IC7604	C2	P1012	F6	Q7004	A2	Q7803	A4	QR45301	H6
IC3404	C1	IC40311	F6	IC45502	G3	IC7605	C2	P1013	D6	Q7005	B2	Q7804	A4	SW40101	E5
IC3405	D1	IC40501	G1	IC45503	G2	IC7707	C4	P1014	C6	Q7006	A2	QR40103	F4	SW40102	G5
IC3409	D1	IC40502	G2	IC45504	G2	IC7708	B5	P1015	E5	Q7008	A2	QR40104	F4	SW45101	H5
IC3410	E1	IC40503	G1	IC45505	G2	IC7711	C4	Q3803	C4	Q7203	A2	QR40202	F5	SW45102	J5
IC3411	E1	IC40504	G1	IC45506	G2	IC7712	C5	Q3804	C4	Q7301	B3	QR40203	G5	TG40501	H1
IC3412	D2	IC40505	G1	IC45507	G2	IC7802	A4	Q40102	F4	Q7302	B3	QR40204	F5	TG7301	C3
IC3802	D4	IC40506	G1	IC45510	G2	IC7805	B5	Q40201	F5	Q7305	B3	QR40205	G5	TP40501	G1
IC3809	D4	IC40507	G1	IC7003	A1	IC7807	B5	Q40202	G5	Q7306	B3	QR40206	G5	TP45501	H1
IC3902	D3	IC40510	G1	IC7006	A1	IC7808	A4	Q40203	G5	Q7307	B3	QR40207	G5	VR7305	B3
IC3903	C3	IC45005	F1	IC7009	A2	P1001	E5	Q40204	F5	Q7308	B3	QR45103	H4	VR7306	B3
IC3904	D2	IC45101	H4	IC7010	A2	P1003	J1	Q45102	H4	Q7309	B3	QR45104	G4	X3401	E1
IC40001	F2	IC45108	H5	IC7302	B3	P1004	J2	Q45201	H5	Q7310	B3	QR45202	G5	X7401	C1
IC40002	F2	IC45109	J5	IC7303	B3	P1006	B5	Q45202	H5	Q7401	C1	QR45203	H5		
IC40004	E2	IC45110	J5	IC7304	B3	P1007	D5	Q45203	H5	Q7602	B2	QR45204	G5		
IC40005	E2	IC45111	J5	IC7305	B3	P1009	G5	Q45204	G5	Q7704	B3	QR45205	H5		
IC40101	F4	IC45310	H6	IC7407	B1	P1010	C6	Q45303	H6	Q7801	B4	QR45206	H5		
IC40108	E5	IC45311	H5	IC7411	C1	P1011	H6	Q7001	A1	Q7802	B4	QR45207	H5		

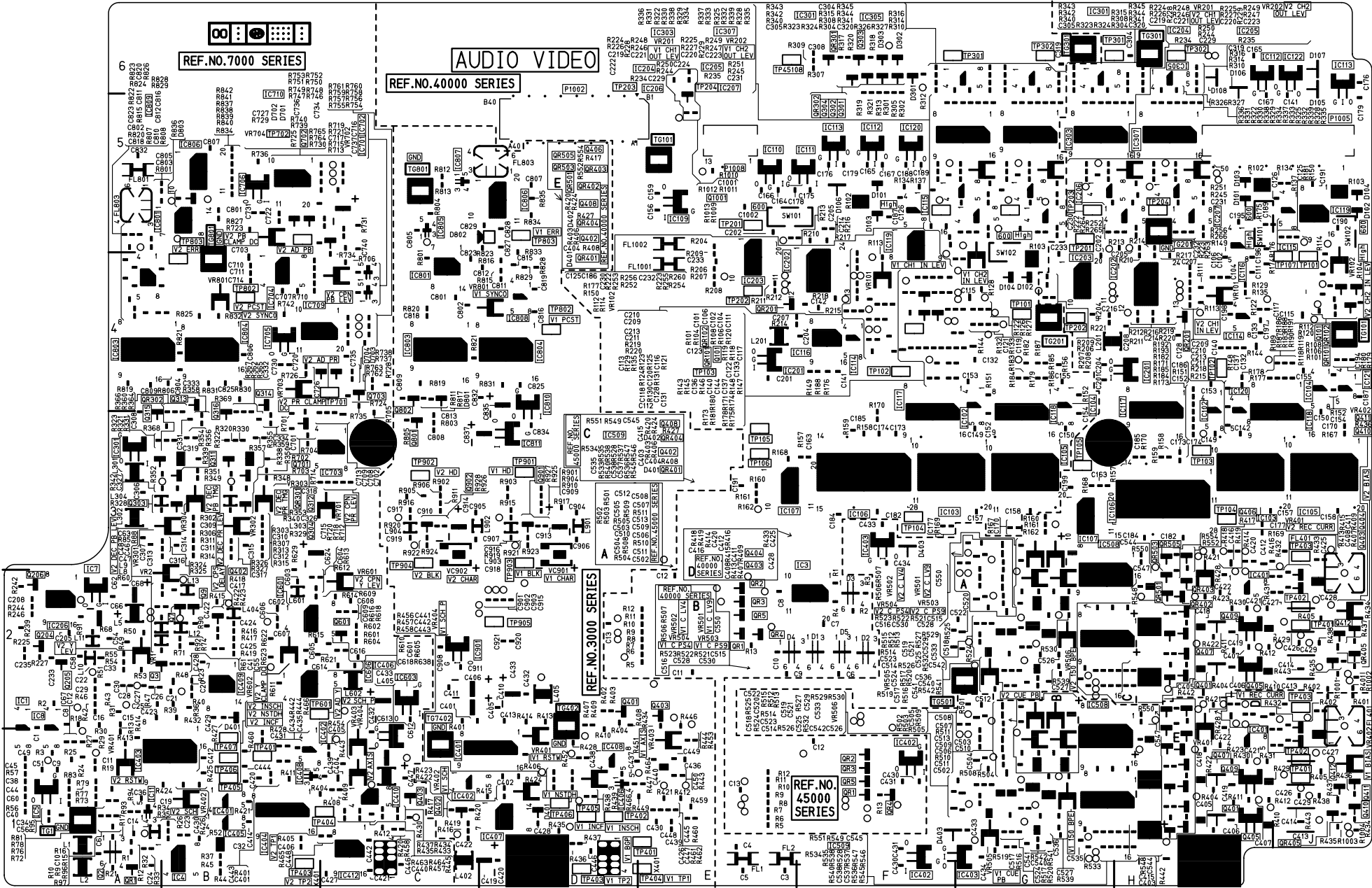


(COMPONENT SIDE)



AUDIO VIDEO P.C. BOARD (VEP84336B)

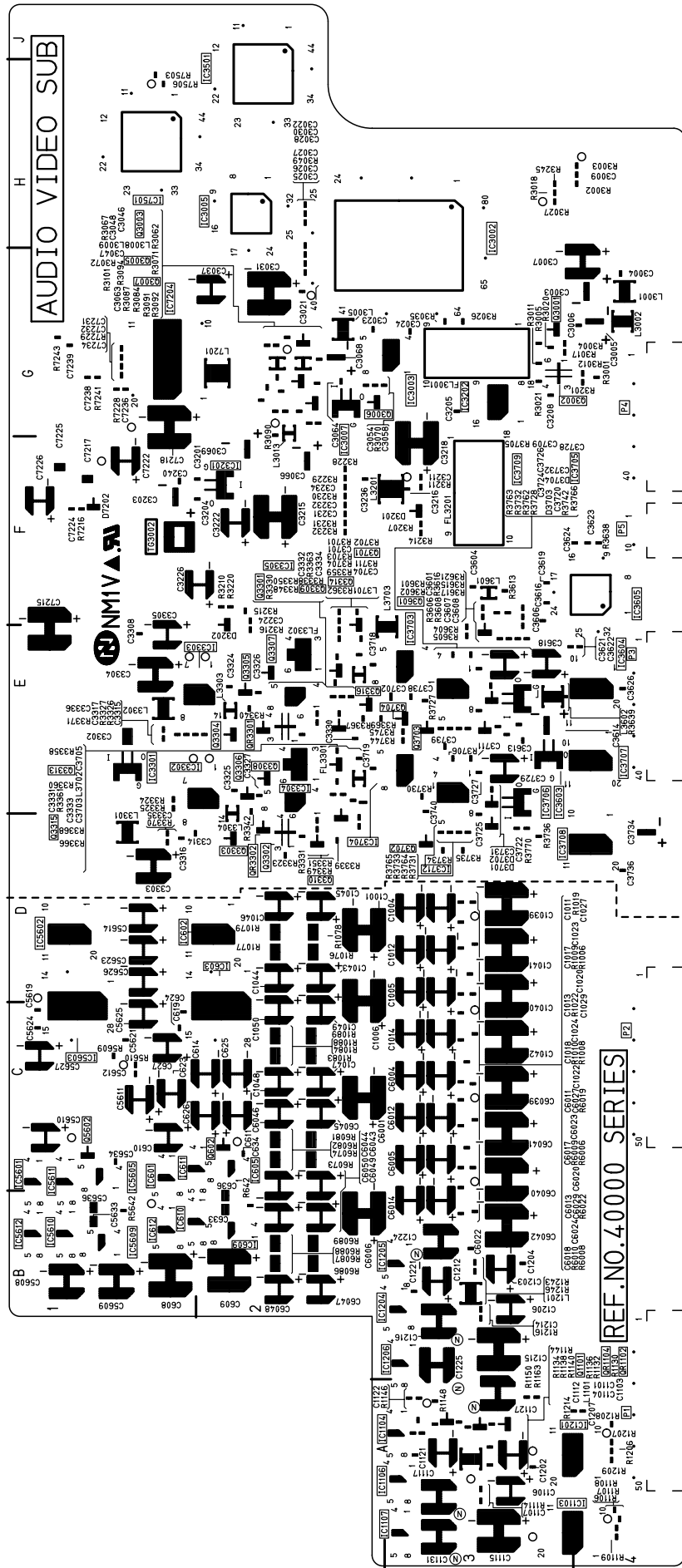
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IC3401	C1	IC40110	E5	IC40402	F1	IC45203	G4	IC7402	B1	IC7806	B5	Q40406	H2	Q7009	B2	QR40101	F4	QR45403	H2	TP3403	D1	TP40401	J1	TP7406	B1	VR40504	G1	VR7403	B1
IC3402	C1	IC40111	F5	IC40403	G1	IC45204	G5	IC7403	B1	IC7809	A4	Q40407	H1	Q7204	A2	QR40102	F4	QR45404	H2	TP3404	E1	TP40402	J1	TP7407	B1	VR40505	G1	VR7404	B1
IC3406	D1	IC40112	F5	IC40508	G1	IC45205	H5	IC7404	B1	P1002	D5	Q40408	H1	Q7205	A2	QR40201	E4	QR45405	J2	TP3405	D1	TP40403	J2	TP7601	B2	VR40506	G1	VR7601	B2
IC3407	D1	IC40113	F5	IC40509	G1	IC45206	H5	IC7405	B1	P1005	J5	Q40409	H1	Q7206	A2	QR40301	F6	QR45501	H2	TP3406	D1	TP45101	J4	TP7701	B4	VR45101	H4	VR7602	B2
IC3408	D1	IC40114	F4	IC45102	H4	IC45207	H5	IC7406	C1	P1008	E5	Q40410	J1	Q7303	B3	QR40302	F6	QR45503	H2	TP3802	D4	TP45102	H4	TP7702	B5	VR45102	J4	VR7701	B3
IC3801	C4	IC40115	F5	IC45103	H3	IC45301	G6	IC7408	B1	Q1001	E5	Q40411	J1	Q7304	B3	QR40401	H1	QR45505	H3	TP3803	D5	TP45103	H3	TP7802	B4	VR45201	H5	VR7702	B4
IC3803	C4	IC40116	F4	IC45104	J4	IC45303	G5	IC7409	B2	Q3401	D2	Q40412	J1	Q7311	B3	QR40402	H1	QR7001	A1	TP3901	D3	TP45104	H3	TP7803	B4	VR45202	H5	VR7703	B4
IC3804	D4	IC40117	F3	IC45105	J3	IC45305	H6	IC7410	C1	Q3402	C1	Q45101	J4	Q7312	B3	QR40403	H1	QR7301	B3	TP3902	C3	TP45105	G3	VC3901	D3	VR45401	H2	VR7704	B5
IC3805	C5	IC40118	G3	IC45106	H3	IC45307	H5	IC7412	B1	Q3403	E2	Q45401	H2	Q7313	B4	QR40404	H1	QR7302	A3	TP3903	D3	TP45107	J4	VC3902	C3	VR45402	J2	VR7801	B4
IC3806	D5	IC40119	F5	IC45107	G3	IC45401	H2	IC7601	B2	Q3801	C3	Q45402	H2	Q7314	B4	QR40405	J1	TG3402	D1	TP3904	C3	TP45108	E6	VR3401	D1	VR45501	G3		
IC3807	C5	IC40120	F5	IC45112	H6	IC45402	F1	IC7603	C2	Q3802	C4	Q45403	J2	Q7315	A3	QR40501	H1	TG3801	C5	TP3905	D2	TP45201	G5	VR3402	D1	VR45502	G3		
IC3808	D4	IC40201	E4	IC45113	J6	IC45403	F3	IC7606	B2	Q3901	D3	Q45404	J2	Q7316	B3	QR40503	H1	TG40101	E5	TP40101	G4	TP45202	G4	VR3403	E1	VR45503	G2		
IC3810	D4	IC40202	F4	IC45114	H4	IC45508	G2	IC7701	C4	Q3902	C3	Q45405	H2	Q7402	B2	QR40505	H2	TG40201	G4	TP40102	F4	TP45203	G5	VR3404	D1	VR45504	G2		
IC3811	D3	IC40203	E4	IC45115	J5	IC45509	G2	IC7702	C4	Q40101	F4	Q45406	H3	Q7403	C1	QR45001	F1	TG40301	G6	TP40103	F4	TP45204	H5	VR3801	C4	VR45505	G2		
IC3901	C2	IC40204	G5	IC45116	H5	IC7701	A1	IC7703	B3	Q40301	F6	Q45407	H2	Q7601	B2	QR45002	F1	TG45101	J4	TP40104	F3	TP45301	G6	VR40101	F4	VR45506	G2		
IC40003	F2	IC40205	G5	IC45117	H4	IC7704	B1	IC7704	B4	Q40302	F6	Q45408	H2	Q7701	B3	QR45003	F1	TG45201	H5	TP40105	E3	TP45302	H6	VR40102	G4	VR7001	A2		
IC40102	G4	IC40206	G5	IC45118	J3	IC7705	A1	IC7705	B4	Q40303	F6	Q45409	H2	Q7702	B5	QR45004	F1	TG45301	H6	TP40106	E3	TP45401	J2	VR40201	G5	VR7002	B2		
IC40103	F3	IC40207	G5	IC45119	J5	IC7707	A2	IC7706	B5	Q40304	F6	Q45410	J2	Q7703	C4	QR45005	F1	TG45501	G2	TP40201	E5	TP45402	J2	VR40202	G5	VR7301	B3		
IC40104	G4	IC40301	G6	IC45120	H4	IC7708	A1	IC7709	B4	Q40401	H1	Q45411	J2	QR40001	E2	QR45101	J4	TG7001	A1	TP40202	E4	TP45403	J3	VR40401	H1	VR7302	B3		
IC40105	G3	IC40303	G5	IC45121	J4	IC7711	A1	IC7710	B5	Q40402	H1	Q45412	J2	QR40002	E2	QR45102	J4	TG7402	C1	TP40203	F5	TP7401	B1	VR40402	J1	VR7303	B3		
IC40106	F3	IC40305	G6	IC45122	J6	IC7206	A2	IC7801	B5	Q40403	J1	Q7002	A1	QR40003	E2	QR45201	H4	TG7801	B4	TP40204	G5	TP7403	B1	VR40501	G2	VR7304	B3		
IC40107	E3	IC40307	G5	IC45201	H4	IC7301	A3	IC7803	A4	Q40404	J1	Q7003	A2	QR40004	E2	QR45401	H2	TP3401	E1	TP40301	F6	TP7404	B1	VR40502	G2	VR7401	A1		
IC40109	E5	IC40401	H1	IC45202	H4	IC7401	B1	IC7804	B4	Q40405	H1	Q7007	B2	QR40005	E2	QR45402	H2	TP3402	D1	TP40302	G6	TP7405	B1	VR40503	G1	VR7402	B1		



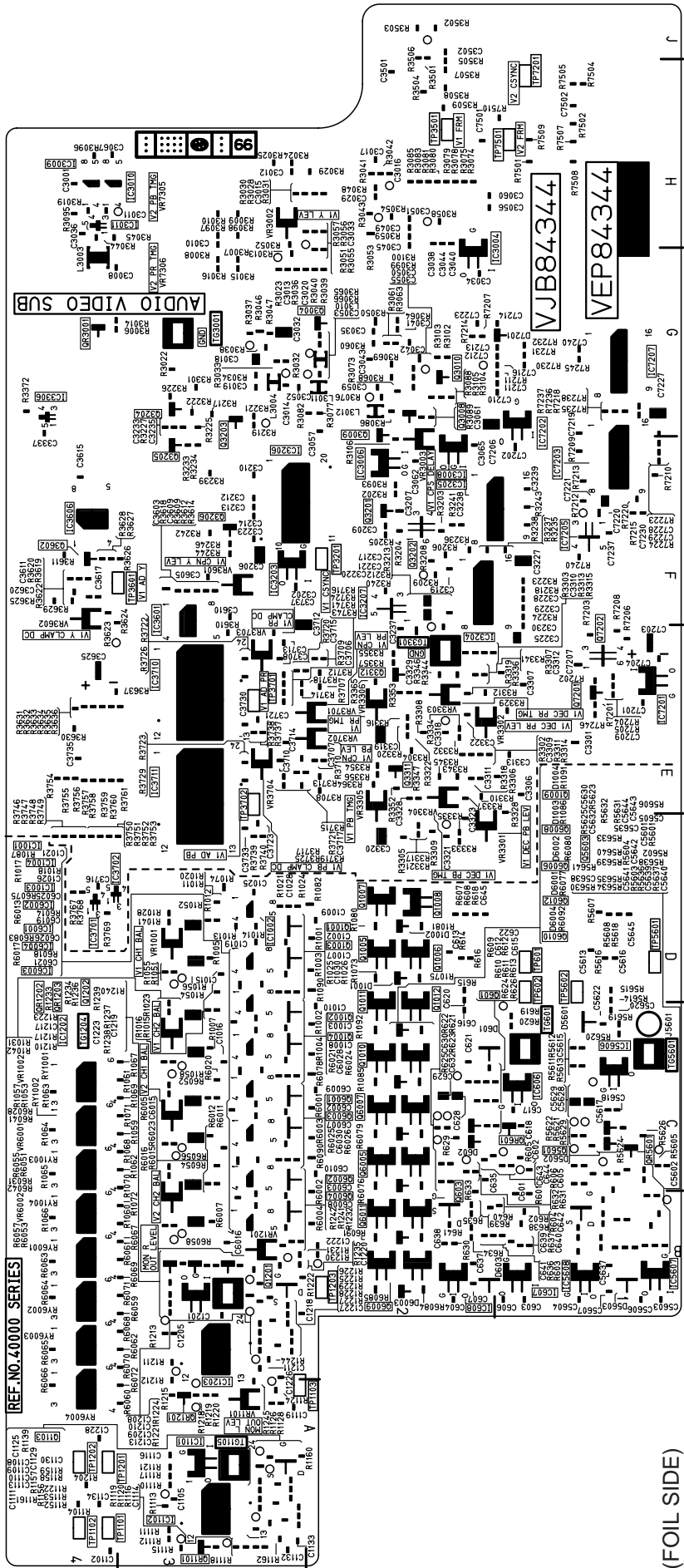


## AD/VD SUB P.C. BOARD (VEP84344B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3002	G3	IC3705	E3	IC41107	A3	P3	E4	Q3309	E2	QR41104	A3		
IC3003	G3	IC3706	E3	IC41201	A4	P4	G4	Q3310	D2	TG3002	F1		
IC3005	H2	IC3707	E4	IC41204	B3	P5	F4	Q3313	E2				
IC3007	G2	IC3708	D4	IC41205	B3	Q3001	G3	Q3314	E2				
IC3201	F2	IC3709	E3	IC41206	B3	Q3002	G3	Q3315	D2				
IC3202	G3	IC3712	E3	IC45601	C1	Q3003	G2	Q3316	E2				
IC3301	E1	IC40601	C1	IC45602	D1	Q3005	G2	Q3601	E3				
IC3302	E2	IC40602	D2	IC45603	D1	Q3006	G2	Q3701	F2				
IC3303	E2	IC40603	D2	IC45605	C1	Q3007	G2	Q3702	D3				
IC3304	E2	IC40605	C2	IC45609	B1	Q3301	E2	Q3703	E3				
IC3305	E2	IC40609	B2	IC45610	B1	Q3302	D2	Q3704	E3				
IC3501	H2	IC40610	B2	IC45611	C1	Q3303	D2	Q40602	C2				
IC3603	E3	IC40611	C2	IC45612	B1	Q3304	E2	Q41101	A3				
IC3604	E4	IC40612	B1	IC7204	G1	Q3305	E2	Q45602	C1				
IC3605	F4	IC41103	A4	IC7501	H1	Q3306	E2	QR3301	E2				
IC3703	E3	IC41104	A3	P1	A4	Q3307	E2	QR3302	D2				
IC3704	E3	IC41106	A3	P2	C4	Q3308	E2	QR41102	A3				



(COMPONENT SIDE)

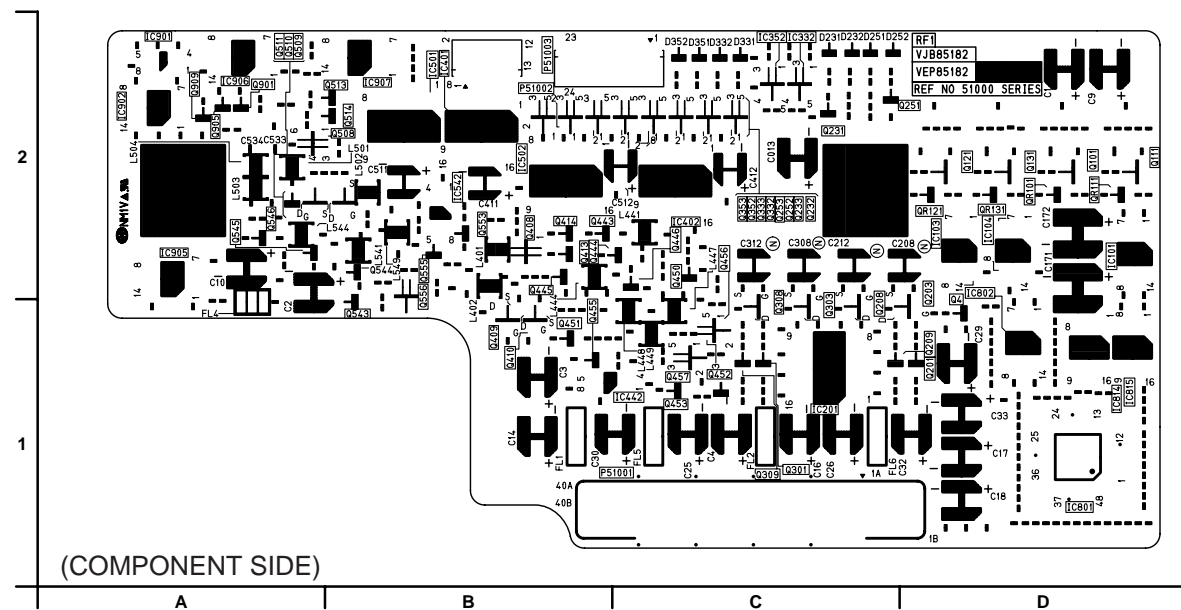
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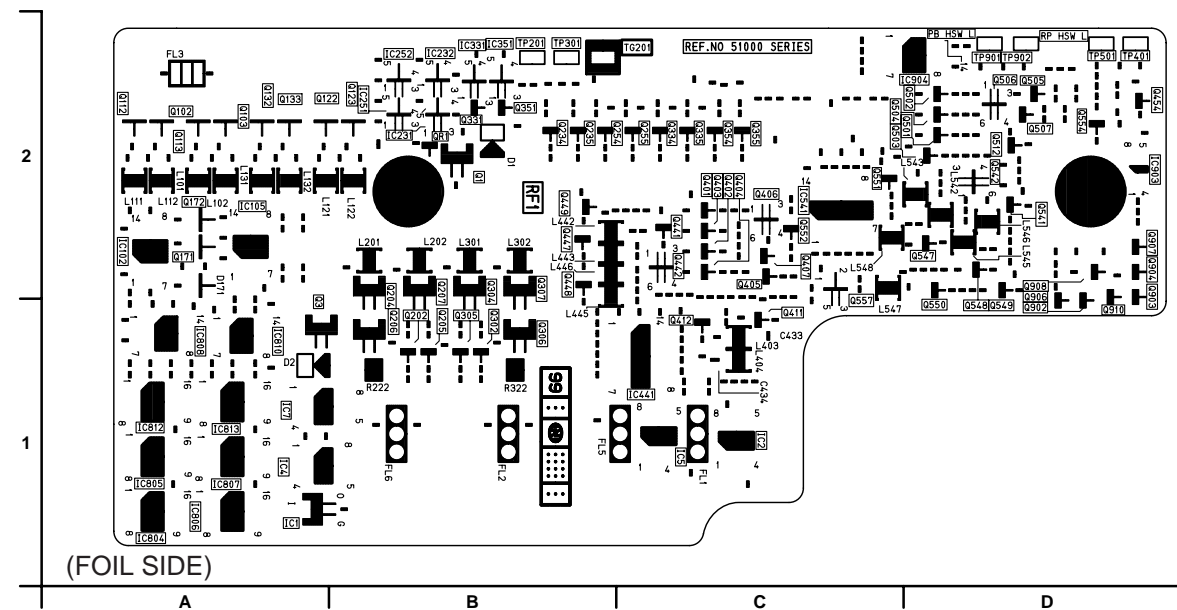


# RF AMP 1 P.C. BOARD (VEP85182A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC51101	D2	IC51502	B2	IC51907	B2	Q51203	D1	Q51303	C1	Q51413	B2	Q51455	B1	Q51544	B2	QR51111	D2
IC51103	D2	IC51542	B2	P51001	C1	Q51208	C1	Q51308	C1	Q51414	B2	Q51456	C1	Q51545	A2	QR51121	D2
IC51104	D2	IC51801	D1	P51002	B2	Q51209	C1	Q51309	C1	Q51443	B2	Q51457	C1	Q51546	A2	QR51131	D2
IC51201	C1	IC51802	D1	P51003	B2	Q51231	C2	Q51332	C2	Q51444	C2	Q51508	A2	Q51553	B2		
IC51332	C2	IC51814	D1	Q51004	D1	Q51232	C2	Q51333	B2	Q51445	B2	Q51509	B2	Q51555	B2		
IC51352	C2	IC51815	D1	Q51101	D2	Q51233	C2	Q51352	B2	Q51446	C1	Q51510	A2	Q51556	B1		
IC51401	B2	IC51901	A2	Q51111	D2	Q51251	C2	Q51353	B2	Q51450	C2	Q51511	A2	Q51901	A2		
IC51402	C2	IC51902	A2	Q51121	D2	Q51252	C2	Q51408	B2	Q51451	B1	Q51513	B2	Q51905	A2		
IC51442	B1	IC51905	A2	Q51131	D2	Q51253	C2	Q51409	B1	Q51452	C1	Q51514	B2	Q51909	A2		
IC51501	B2	IC51906	A2	Q51201	D1	Q51301	C1	Q51410	B1	Q51453	C1	Q51543	B1	QR51101	D2		

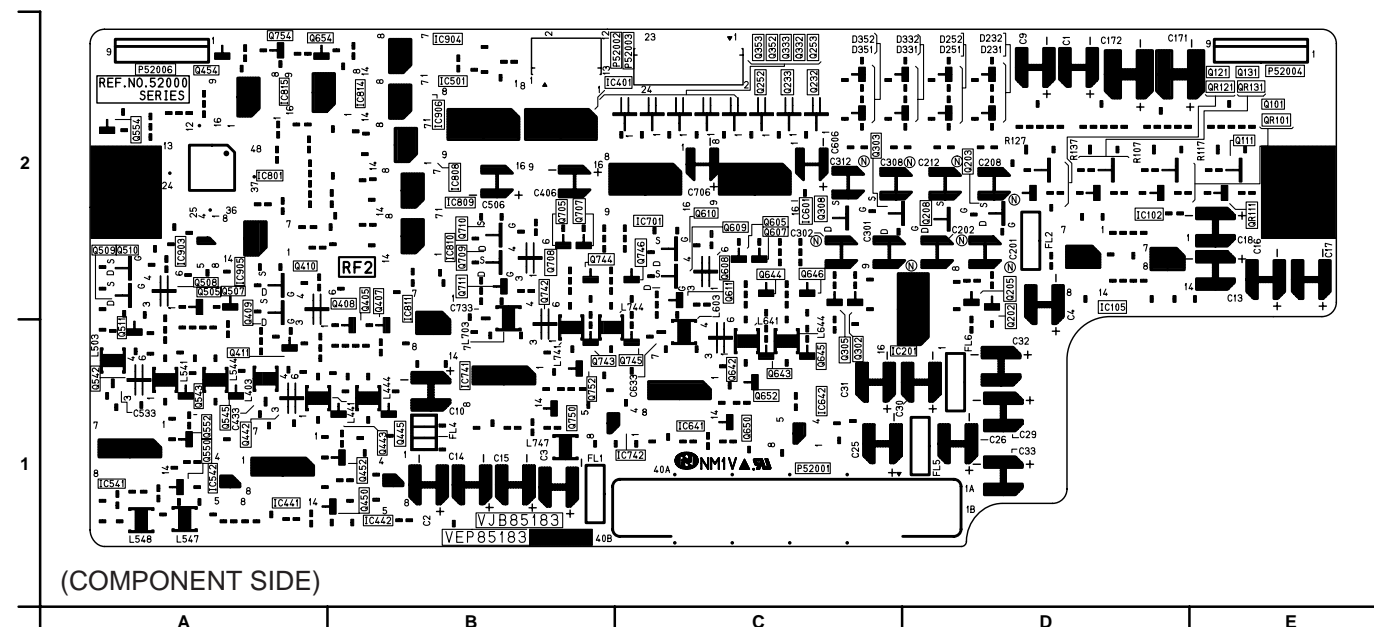


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IC51002	C1	IC51441	C1	Q51001	B2	Q51202	B1	Q51306	B1	Q51405	C2	Q51502	D2	Q51550	D1	QR51001	B2
IC51004	A1	IC51541	C2	Q51003	A1	Q51204	B1	Q51307	B1	Q51406	C2	Q51503	D2	Q51551	D2	TG51201	B2
IC51005	C1	IC51804	A1	Q51102	A2	Q51205	B1	Q51331	B2	Q51407	C2	Q51504	D2	Q51552	C2	TP51201	B2
IC51007	A1	IC51805	A1	Q51103	A2	Q51206	B1	Q51334	C2	Q51411	C1	Q51505	D2	Q51554	D2	TP51301	B2
IC51102	A2	IC51806	A1	Q51112	A2	Q51207	B1	Q51335	C2	Q51412	C1	Q51506	D2	Q51557	C2	TP51401	D2
IC51105	A2	IC51807	A1	Q51113	A2	Q51234	B2	Q51351	B2	Q51441	C2	Q51507	D2	Q51902	D1	TP51501	D2
IC51231	B2	IC51808	A1	Q51122	A2	Q51235	B2	Q51354	C2	Q51442	C2	Q51512	D2	Q51903	D1	TP51901	D2
IC51232	B2	IC51810	A1	Q51123	B2	Q51254	B2	Q51355	C2	Q51447	B2	Q51541	D2	Q51904	D2	TP51902	D2
IC51251	B2	IC51812	A1	Q51132	A2	Q51255	C2	Q51401	C2	Q51448	B2	Q51542	D2	Q51906	D1		
IC51252	B2	IC51813	A1	Q51133	A2	Q51302	B1	Q51402	C2	Q51449	B2	Q51547	D2	Q51907	D2		
IC51331	B2	IC51903	D2	Q51171	A2	Q51304	B1	Q51403	C2	Q51454	D2	Q51548	D2	Q51908	D2		

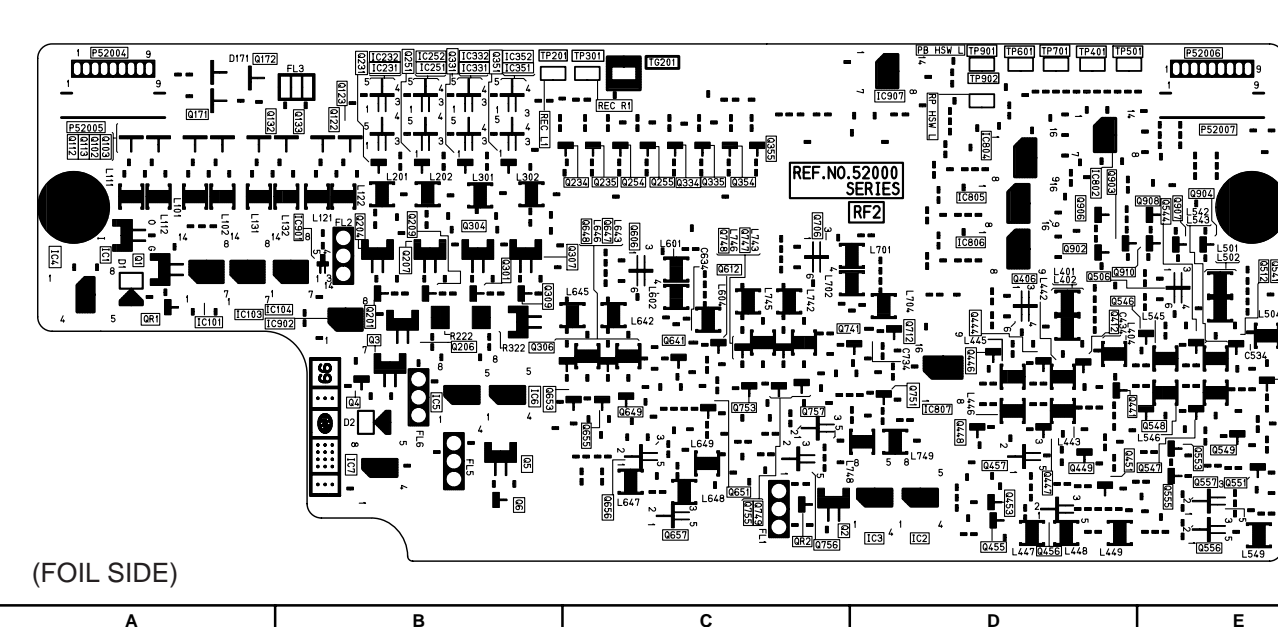


## RF AMP 2 P.C. BOARD (VEP85183A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC52102	D2	IC52701	C2	IC52905	A2	Q52203	D2	Q52333	C2	Q52450	A1	Q52550	A1	Q52645	C1	Q52743	B1
IC52105	D2	IC52741	B1	IC52906	B2	Q52205	D2	Q52352	C2	Q52452	B1	Q52552	A1	Q52646	C2	Q52744	B2
IC52201	D2	IC52742	C1	P52001	C1	Q52208	D2	Q52353	C2	Q52454	A2	Q52554	A2	Q52650	C1	Q52745	C1
IC52401	B2	IC52801	A2	P52002	B2	Q52232	C2	Q52405	B1	Q52505	A2	Q52605	C2	Q52652	C1	Q52746	C2
IC52441	A1	IC52808	B2	P52003	C2	Q52233	C2	Q52407	B1	Q52507	A2	Q52607	C2	Q52654	A2	Q52750	B1
IC52442	B1	IC52809	B2	P52004	E2	Q52252	C2	Q52408	A2	Q52508	A2	Q52608	C2	Q52705	B2	Q52752	B1
IC52501	B2	IC52810	B2	P52006	A2	Q52253	C2	Q52409	A2	Q52509	A2	Q52609	C2	Q52707	B2	Q52754	A2
IC52541	A1	IC52811	B1	Q52101	D2	Q52302	C2	Q52410	A2	Q52510	A2	Q52610	C2	Q52708	B2	QR52101	D2
IC52542	A1	IC52814	A2	Q52111	E2	Q52303	C2	Q52411	A1	Q52511	A1	Q52611	C2	Q52709	B2	QR52111	E2
IC52601	C2	IC52815	A2	Q52121	D2	Q52305	C2	Q52442	A1	Q52542	A1	Q52642	C1	Q52710	B2	QR52121	D2
IC52641	C1	IC52903	A2	Q52131	D2	Q52308	C2	Q52443	B1	Q52543	A1	Q52643	C1	Q52711	B2	QR52131	D2
IC52642	C1	IC52904	B2	Q52202	D2	Q52332	C2	Q52445	B1	Q52545	A1	Q52644	C2	Q52712	B1		



REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC52001	A2	IC52332	B2	Q52003	B1	Q52204	B2	Q52331	B2	Q52453	D1	Q52556	E1	Q52741	D1	Q52910	E2
IC52002	D1	IC52351	B2	Q52004	B1	Q52206	B1	Q52334	C2	Q52455	D1	Q52557	E1	Q52747	C1	QR52801	A1
IC52003	D1	IC52352	B2	Q52005	B1	Q52207	B2	Q52335	C2	Q52456	D1	Q52606	C2	Q52748	C1	QR52002	C1
IC52004	A1	IC52802	D2	Q52006	B1	Q52209	B1	Q52351	B2	Q52457	D1	Q52612	C1	Q52749	C1	TG52201	C2
IC52005	B1	IC52804	D2	Q52102	A2	Q52231	B2	Q52354	C2	Q52506	E2	Q52641	C1	Q52751	D1	TP52201	C2
IC52006	B1	IC52805	D2	Q52103	A2	Q52234	C2	Q52355	C2	Q52512	E1	Q52647	C1	Q52753	C1	TP52301	C2
IC52007	B1	IC52806	D2	Q52112	A2	Q52235	C2	Q52406	D1	Q52541	E1	Q52648	C1	Q52755	C1	TP52401	D2
IC52101	A2	IC52807	D1	Q52113	A2	Q52251	B2	Q52412	D1	Q52544	E1	Q52649	C1	Q52756	C1	TP52501	E2
IC52103	A2	IC52901	B2	Q52122	B2	Q52254	C2	Q52441	D1	Q52546	E1	Q52651	C1	Q52757	C1	TP52601	D2
IC52104	B2	IC52902	B1	Q52123	B2	Q52255	C2	Q52444	D1	Q52547	E1	Q52653	C1	Q52758	D2	TP52701	D2
IC52231	B2	IC52907	D2	Q52132	A2	Q52301	B1	Q52446	D1	Q52548	E1	Q52655	C1	Q52903	D2	TP52901	D2
IC52232	B2	P52005	A2	Q52133	B2	Q52304	B2	Q52447	D1	Q52549	E1	Q52656	C1	Q52904	D2	TP52902	D2
IC52251	B2	P52007	E2	Q52171	A2	Q52306	B1	Q52448	D1	Q52551	E1	Q52657	C1	Q52906	D2		
IC52252	B2	Q52001	A2	Q52172	A2	Q52307	B2	Q52449	D1	Q52553	E1	Q52706	C2	Q52907	E2		
IC52331	B2	Q52002	C1	Q52201	B1	Q52309	B1	Q52451	D1	Q52555	E1	Q52712	D1	Q52908	E2		





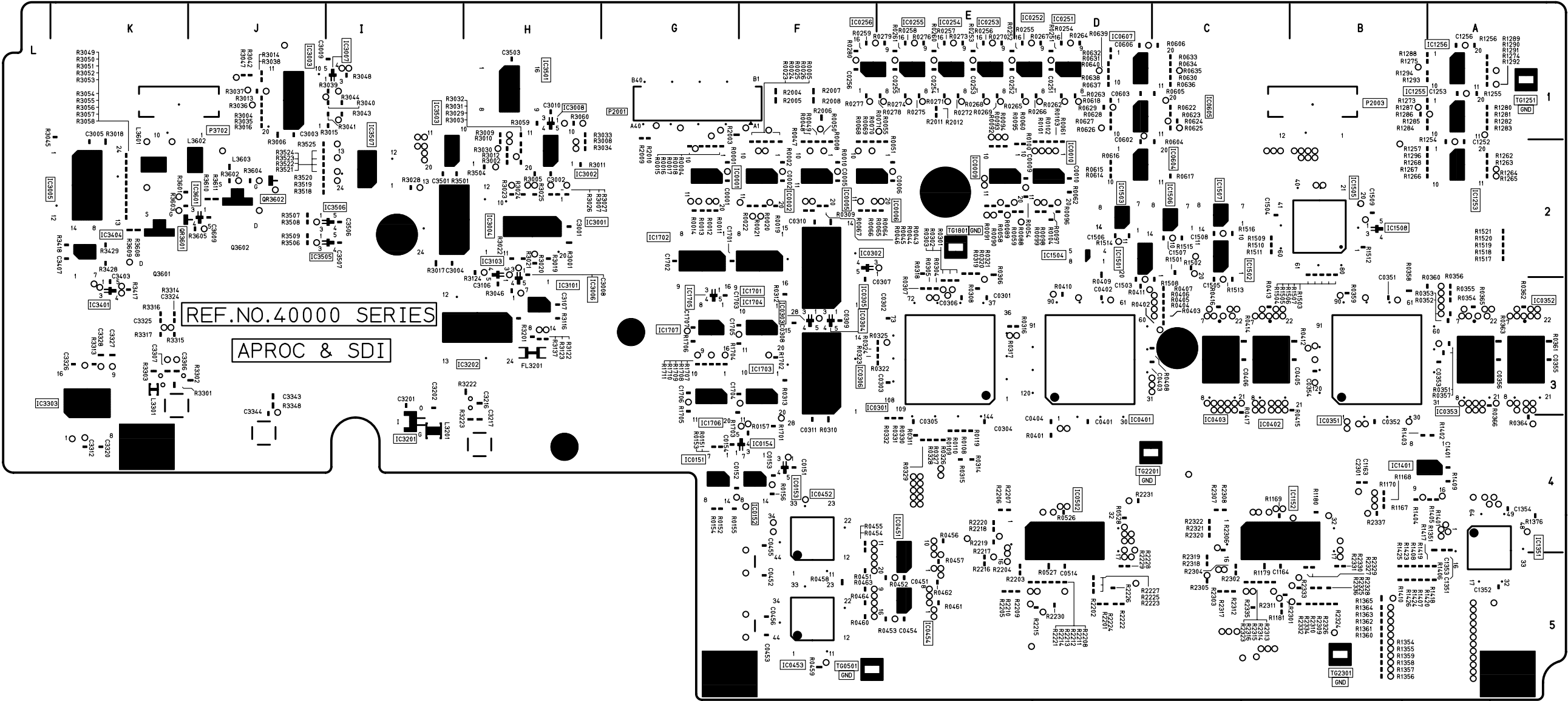
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IC3203	H3	IC40004	F2	IC40603	C1	IC41102	A3	IC41603	D2	IC41806	G3	SW40501	D4	TP3401	J2	TP40501	D5	TP41156	B5
IC3301	J4	IC40007	F2	IC40606	D2	IC41103	A3	IC41604	D2	IC41807	G3	TG40001	F1	TP3402	J2	TP40502	D5	TP41157	B5
IC3302	K3	IC40008	E2	IC40608	D1	IC41151	C4	IC41605	B2	IC41808	F4	TG40601	C1	TP3403	K1	TP40503	D5	TP41251	A1
IC3304	K3	IC40011	E2	IC41001	E3	IC41251	A1	IC41606	C2	IC42001	A1	TG41151	B5	TP3404	J1	TP40504	D5	TP41252	A1
IC3305	J3	IC40257	D2	IC41002	F3	IC41252	A1	IC41607	C2	IC42002	C1	TG41701	E4	TP3405	J1	TP40505	D5	X40451	F5
IC3402	K2	IC40258	D2	IC41003	F3	IC41254	A1	IC41608	C2	IC42003	F1	TP3101	I2	TP3406	J2	TP40506	C5	X40452	F5
IC3403	L2	IC40259	D2	IC41004	F3	IC41257	A2	IC41609	B2	IC42201	D4	TP3102	H3	TP3407	J2	TP40601	C1	X40601	C2
IC3502	H2	IC40260	D2	IC41005	F2	IC41258	A1	IC41708	E4	IC42301	C4	TP3103	H1	TP3408	J2	TP40602	C1	X41251	A2
IC3504	G2	IC40501	D4	IC41006	F3	IC41352	A5	IC41801	F2	P3701	I1	TP3201	H3	TP3409	J2	TP41151	C5		
IC3508	G2	IC40551	F5	IC41051	D3	IC41402	A4	IC41802	G2	P40551	F5	TP3202	H4	TP3410	K3	TP41152	C5		
IC3602	I1	IC40552	F5	IC41052	C3	IC41509	A2	IC41803	F3	P40552	E5	TP3203	H3	TP3411	K3	TP41153	C5		
IC3603	K1	IC40601	D1	IC41053	C3	IC41601	C2	IC41804	F3	P42002	F1	TP3301	K4	TP3412	K3	TP41154	C5		





A PROC & SDI P.C. BOARD (VEP83475A)

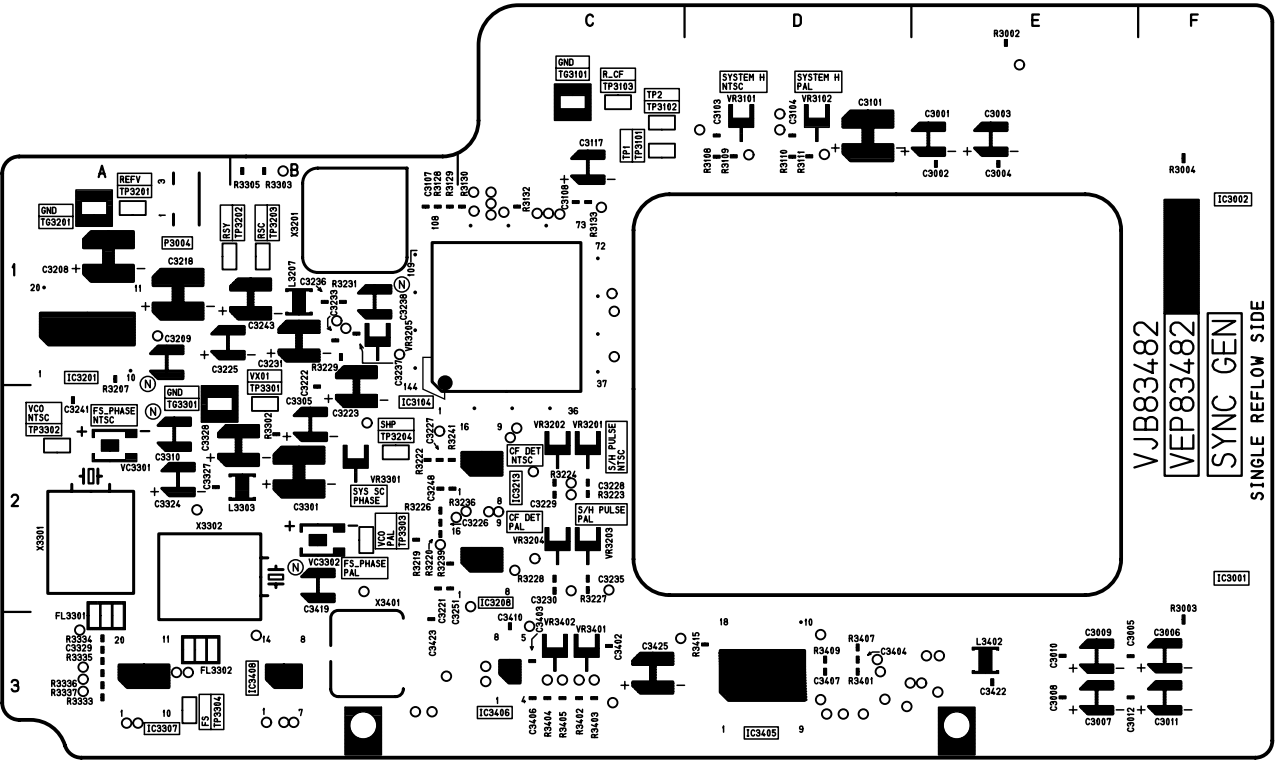
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IC3002	H2	IC3404	K2	IC40151	G4	IC40304	F3	IC40502	D4	IC41504	D2	P42001	G1
IC3003	J1	IC3501	H1	IC40152	F4	IC40305	F2	IC40604	D2	IC41505	B2	P42003	B1
IC3004	I2	IC3503	I2	IC40153	F4	IC40306	F3	IC40605	D1	IC41506	C2	Q3601	K2
IC3005	K2	IC3505	I2	IC40154	F4	IC40351	B3	IC40607	D1	IC41507	C2	Q3602	J2
IC3006	H3	IC3506	I2	IC40251	D1	IC40352	A3	IC41152	C4	IC41508	B2	QR3601	K2
IC3007	I1	IC3507	I2	IC40252	D1	IC40353	A3	IC41253	A2	IC41701	F2	QR3602	J2
IC3008	H1	IC3601	J2	IC40253	E1	IC40401	D3	IC41255	A1	IC41702	G2	TG40501	F5
IC3101	H3	IC40001	G2	IC40254	E1	IC40402	C3	IC41256	A1	IC41703	F3	TG41251	A1
IC3103	H2	IC40002	F2	IC40255	E1	IC40403	C3	IC41351	A4	IC41704	F3	TG41801	E2
IC3201	I4	IC40005	F2	IC40256	F1	IC40451	E5	IC41401	A4	IC41705	G3	TG42201	D4
IC3202	H3	IC40006	F2	IC40301	E3	IC40452	F4	IC41501	D2	IC41706	G3	TG42301	B5
IC3303	K3	IC40009	E2	IC40302	F2	IC40453	F5	IC41502	C2	IC41707	G3		



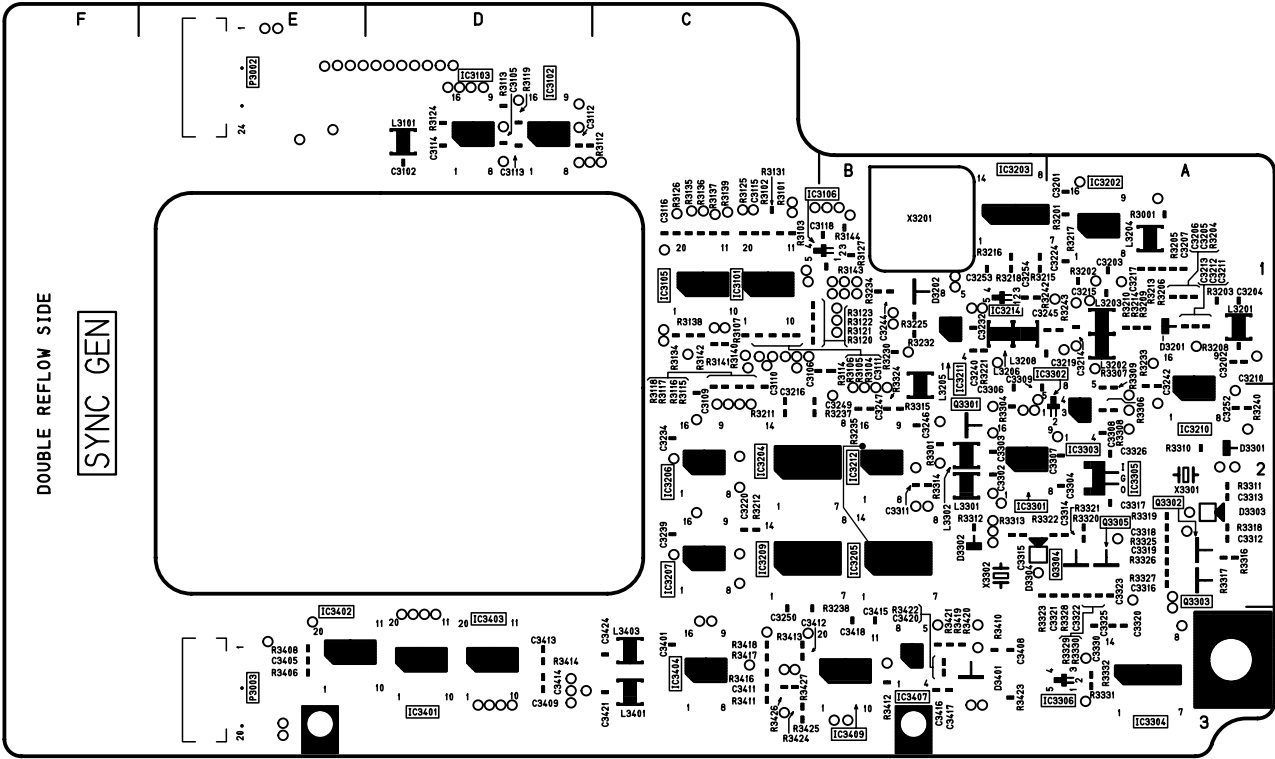
(FOIL SIDE)



SG P.C. BOARD (VEP83482B)



(COMPONENT SIDE)

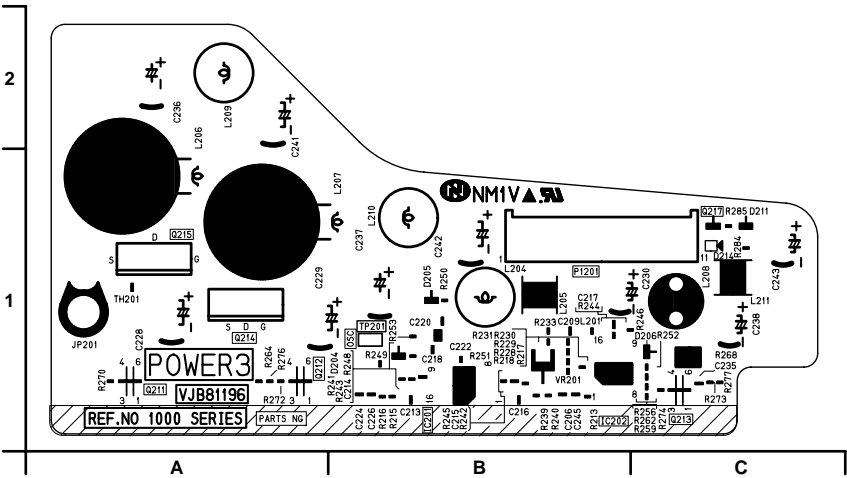


(FOIL SIDE)

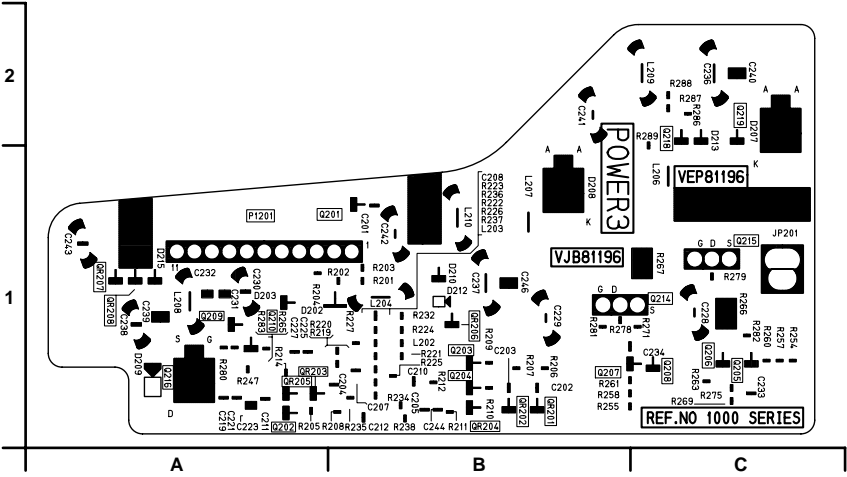
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IC3001	F3
IC3002	F1
IC3104	C1
IC3201	A1
IC3208	C2
IC3213	C2
IC3307	A3
IC3405	D3
IC3406	C3
IC3408	B3
P3004	A1
TG3101	C1
TG3201	A1
TG3301	A2
TP3101	C1
TP3102	C1
TP3103	C1
TP3201	A1
TP3202	A1
TP3203	A1
TP3204	B2
TP3301	A2
TP3302	A2
TP3303	B2
TP3304	A3
VC3301	A2
VC3302	B2
VR3101	D1
VR3102	D1
VR3201	C2
VR3202	C2
VR3203	C2
VR3204	C2
VR3205	B1
VR3301	B2
VR3401	C3
VR3402	C3
X3201	B1
X3301	A2
X3302	B2
X3401	B3

REF	LOC
IC3101	C1
IC3102	D1
IC3103	D1
IC3105	C1
IC3106	B1
IC3202	A1
IC3203	B1
IC3204	C2
IC3205	B2
IC3206	C2
IC3207	C2
IC3209	C2
IC3210	A2
IC3211	B1
IC3212	B2
IC3214	B1
IC3301	B2
IC3302	A2
IC3303	A2
IC3304	A3
IC3305	A2
IC3306	A3
IC3401	D3
IC3402	E3
IC3403	D3
IC3404	C3
IC3407	B3
IC3409	B3
P3002	E1
P3003	E3
Q3301	B2
Q3302	A2
Q3303	A2
Q3304	A2
Q3305	A2

POWER 3 P.C. BOARD (VEP81196A)



(COMPONENT SIDE)



(FOIL SIDE)

REF	LOC
IC1201	B1
IC1202	B1
P1201	B1
Q1211	A1
Q1212	A1
Q1213	C1
Q1214	A1
Q1215	A1
Q1217	C1
TP1201	B1
VR1201	B1

REF	LOC	REF	LOC
Q1201	B1	QR1202	B1
Q1202	A1	QR1203	A1
Q1203	B1	QR1204	B1
Q1204	B1	QR1205	A1
Q1205	C1	QR1206	B1
Q1206	C1	QR1207	A1
Q1207	C1	QR1208	A1
Q1208	C1		
Q1209	A1		
Q1210	A1		
Q1216	A1		
Q1218	C2		
Q1219	C2		
QR1201	B1		

POWER1 (COMPONENT SIDE)

REF	LOC	REF	LOC
IC1301	B1	TP1701	B2
IC1302	B1	TP1702	C1
IC1503	C1	TP1703	C1
IC1601	C1	TP1704	C1
IC1602	D1	TP1705	D1
P1703	E2	TP1706	C1
P1705	E2	VR1301	B1
P1706	E2	VR1302	B1
Q1302	B1	VR1501	C1
Q1703	E1	VR1601	D1
Q1704	E2	VR1602	D1
QR1303	A1		
QR1304	A1		
TG1701	C2		
TP1301	A2		
TP1302	B2		
TP1501	B2		
TP1601	B2		
TP1602	D1		

POWER1 (FOIL SIDE)

REF	LOC	REF	LOC
IC1303	D2	IC1606	B2
IC1304	D2	P1701	C1
IC1305	C2	P1702	D2
IC1306	C2	P1704	A1
IC1501	C2	Q1301	D1
IC1502	C2	Q1701	A2
IC1603	B2	Q1702	A2
IC1604	B2	QR1702	A2
IC1605	B2		



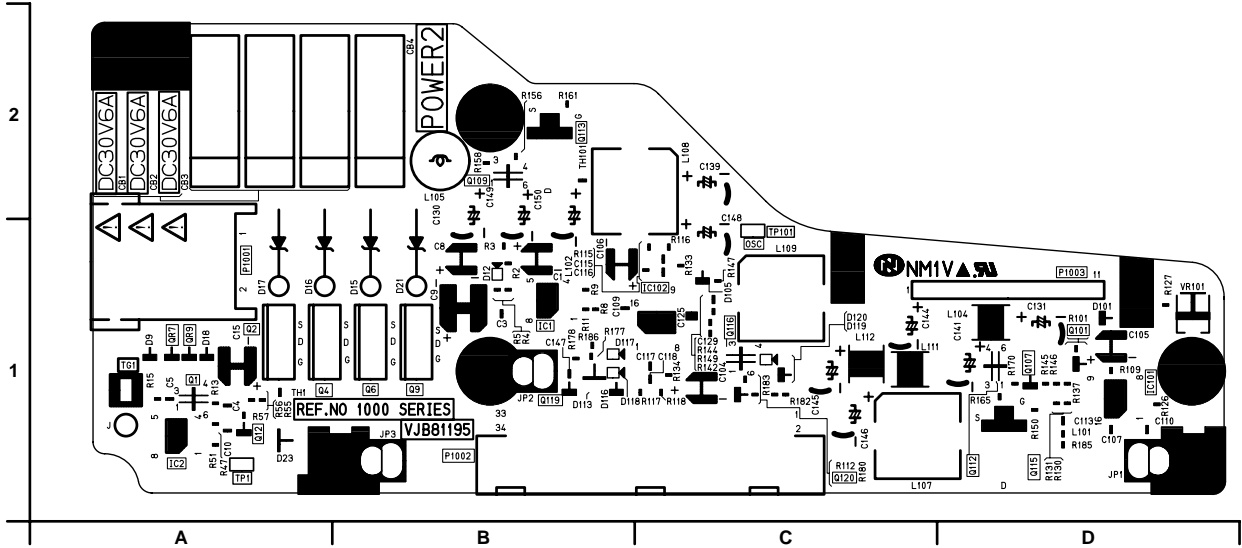
POWER 2 P.C. BOARD (VEP81195A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1001	B1	P1003	D1	Q1012	A1	Q1115	D1	TG1001	A1
IC1002	A1	Q1001	A1	Q1101	D1	Q1116	C1	TP1001	A1
IC1101	D1	Q1002	A1	Q1107	D1	Q1119	B1	TP1101	C1
IC1102	B1	Q1004	A1	Q1109	B2	Q1120	C1	VR1101	D1
P1001	A1	Q1006	B1	Q1112	D1	QR1007	A1		
P1002	B1	Q1009	B1	Q1113	B2	QR1009	A1		

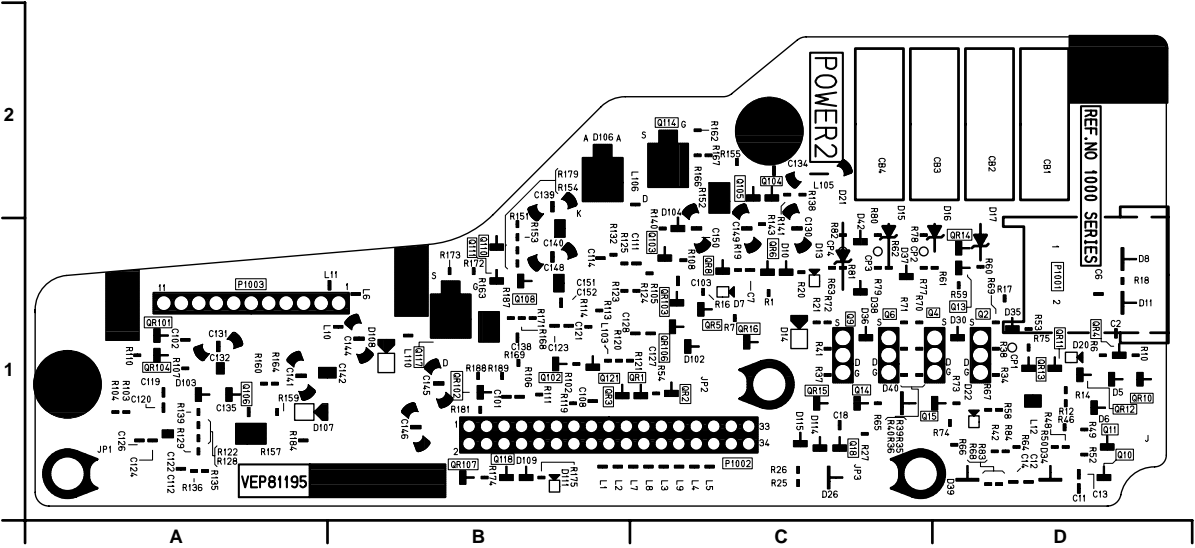
△印の部品は安全上重要な部品です。  
交換するときは、安全及び性能維持の  
ため必ず指定の部品をご使用ください。

**IMPORTANT SAFETY NOTICE:**  
COMPONENTS IDENTIFIED WITH THE MARK △ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.  
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
Q1010	D1	Q1102	B1	Q1110	B1	QR1001	C1	QR1008	C1	QR1015	C1	QR1106	C1
Q1011	D1	Q1103	C1	Q1111	B1	QR1002	C1	QR1010	D1	QR1016	C1	QR1107	B1
Q1013	D1	Q1104	C2	Q1114	C2	QR1003	B1	QR1011	D1	QR1101	A1		
Q1014	C1	Q1105	C2	Q1117	B1	QR1004	D1	QR1012	D1	QR1102	B1		
Q1015	D1	Q1106	A1	Q1118	B1	QR1005	C1	QR1013	D1	QR1103	C1		
Q1018	C1	Q1108	B1	Q1121	B1	QR1006	C1	QR1014	D1	QR1104	A1		

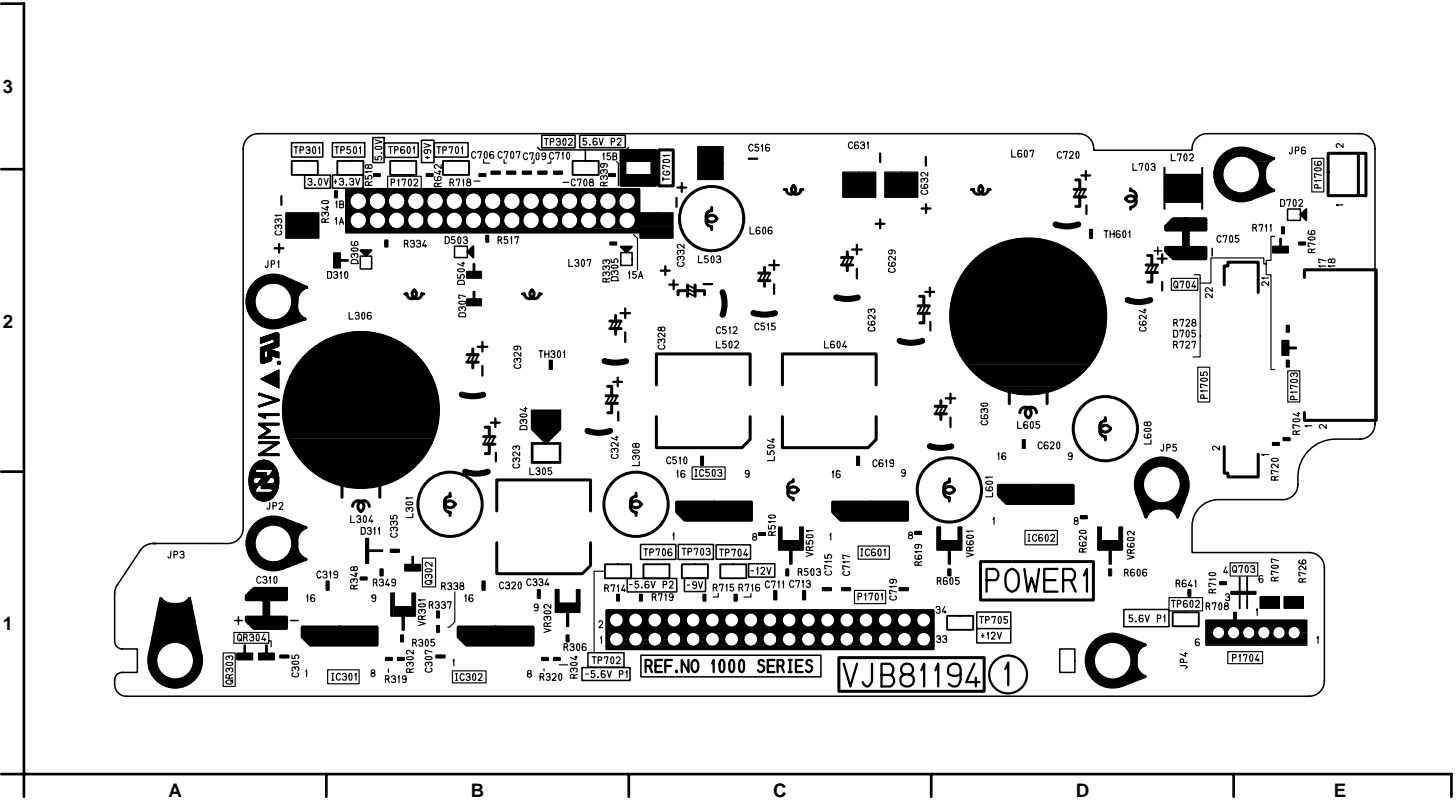


(COMPONENT SIDE)

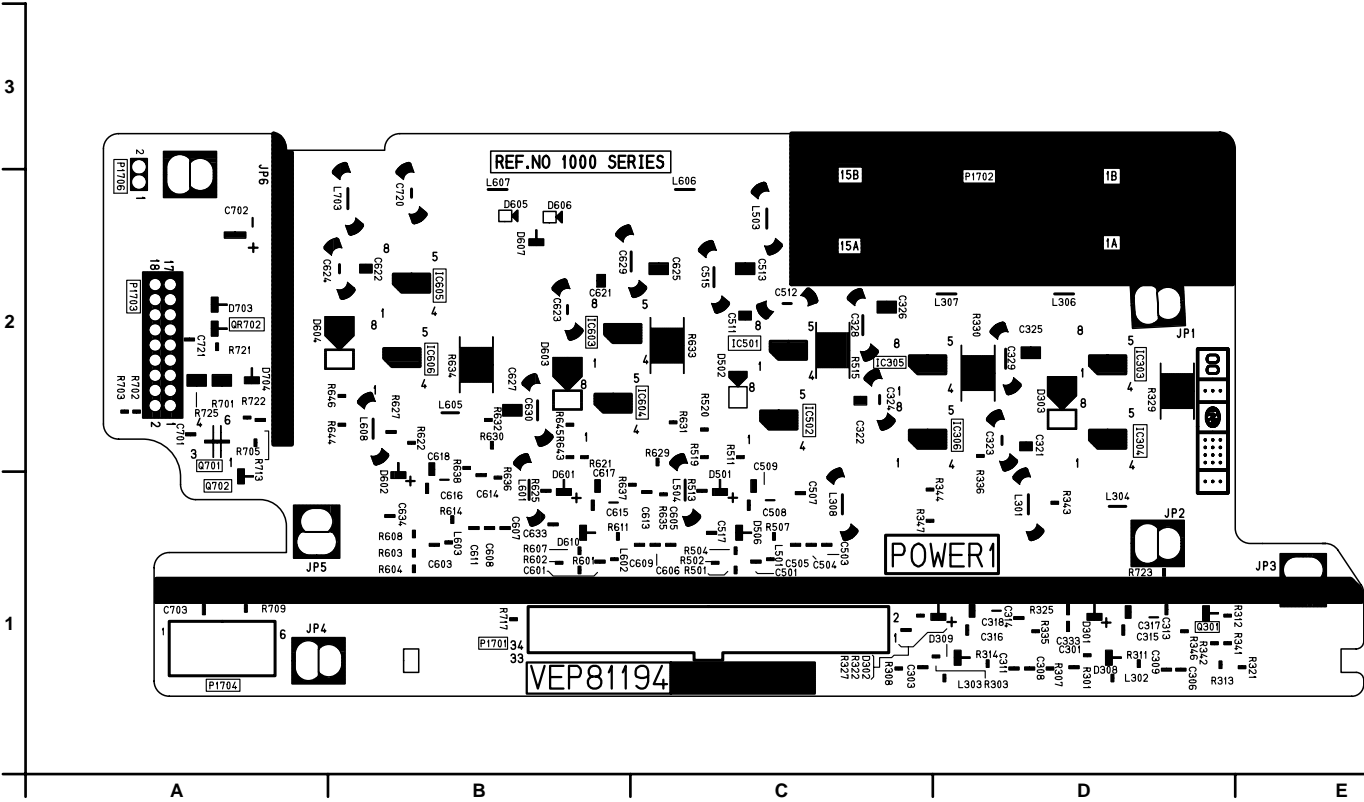


(FOIL SIDE)

POWER 1 P.C. BOARD (VEP81194A)



(COMPONENT SIDE)

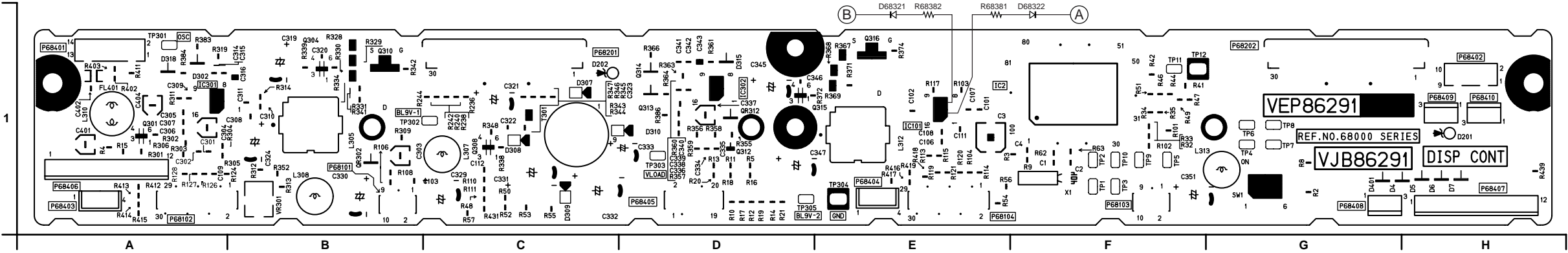


(FOIL SIDE)



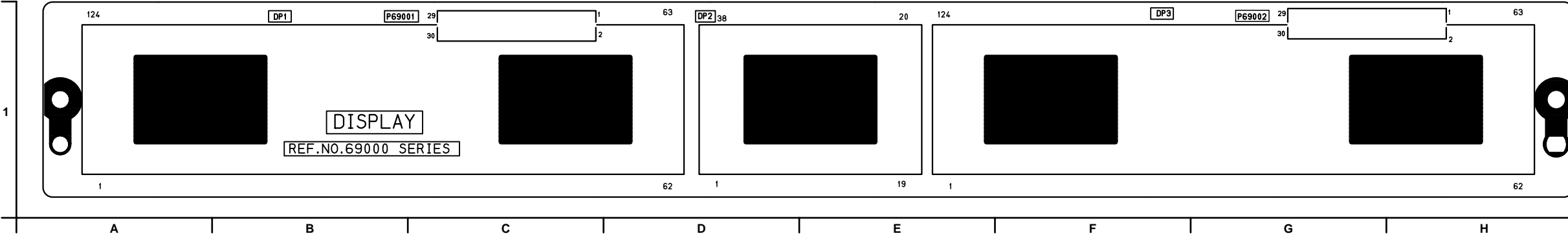
DISP. CONT. P.C. BOARD (VEP86291A)

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IC68002	F1	P68103	F1	P68403	A1	P68409	H1	Q68312	D1	QR68312	D1	TP68005	F1	TP68011	F1	TP68305	D1
IC68101	E1	P68104	E1	P68404	E1	P68410	H1	Q68313	D1	SW68001	G1	TP68006	G1	TP68012	F1	VR68301	B1
IC68301	A1	P68201	C1	P68405	D1	Q68301	A1	Q68314	D1	TP68007	F1	TP68007	G1	TP68301	A1	X68001	F1
IC68302	D1	P68202	G1	P68406	A1	Q68304	B1	Q68315	D1	TP68002	F1	TP68008	G1	TP68302	C1		
P68101	B1	P68401	A1	P68407	H1	Q68308	C1	Q68316	E1	TP68003	F1	TP68009	F1	TP68303	D1		
P68102	A1	P68402	H1	P68408	G1	Q68310	B1	QR68302	B1	TP68004	G1	TP68010	F1	TP68304	E1		



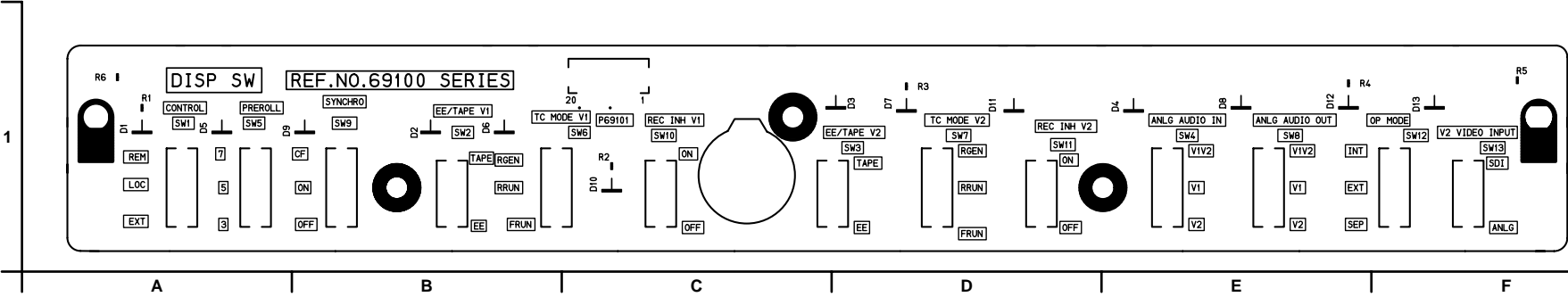
(COMPONENT SIDE)

DISPLAY P.C. BOARD (VEP86292A)



(COMPONENT SIDE)

DISPLAY SW P.C. BOARD (VEP80B35A)



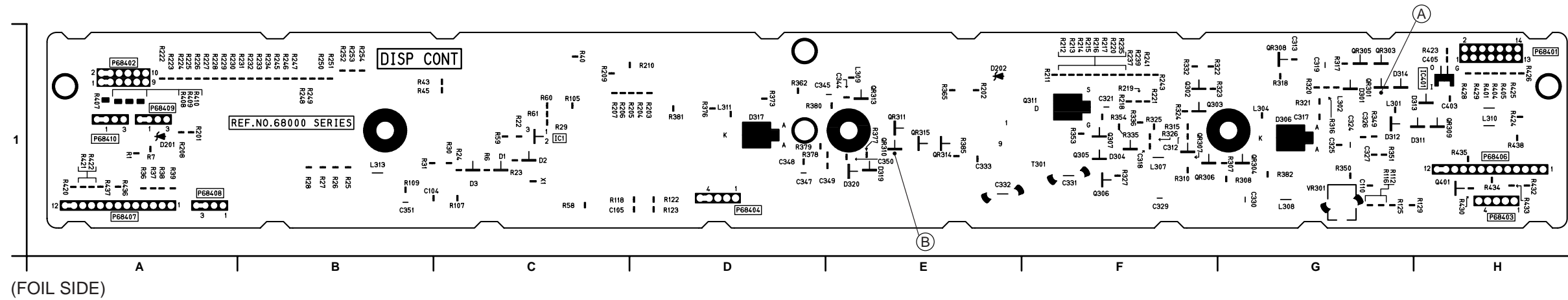
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P69101	C1	SW69106	B1	SW69112	F1
SW69101	A1	SW69107	D1	SW69113	F1
SW69102	B1	SW69108	E1		
SW69103	C1	SW69109	B1		
SW69104	E1	SW69110	C1		
SW69105	A1	SW69111	D1		

(COMPONENT SIDE)

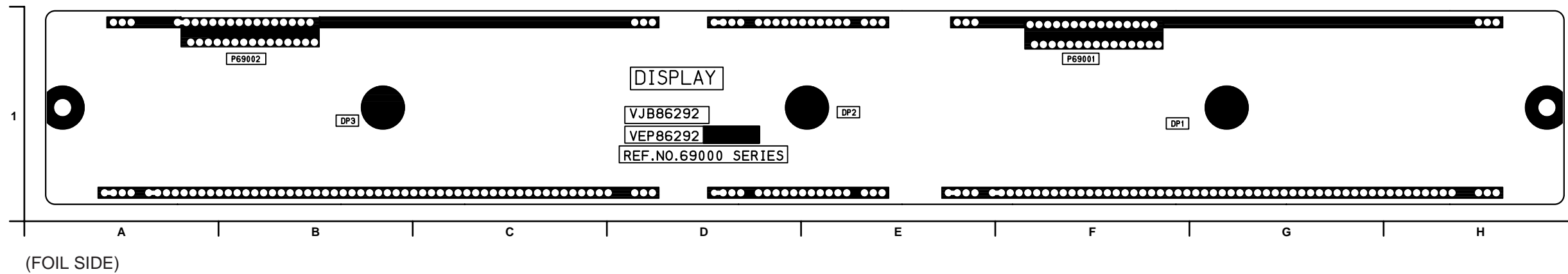


## DISP. CONT. P.C. BOARD (VEP86291A)

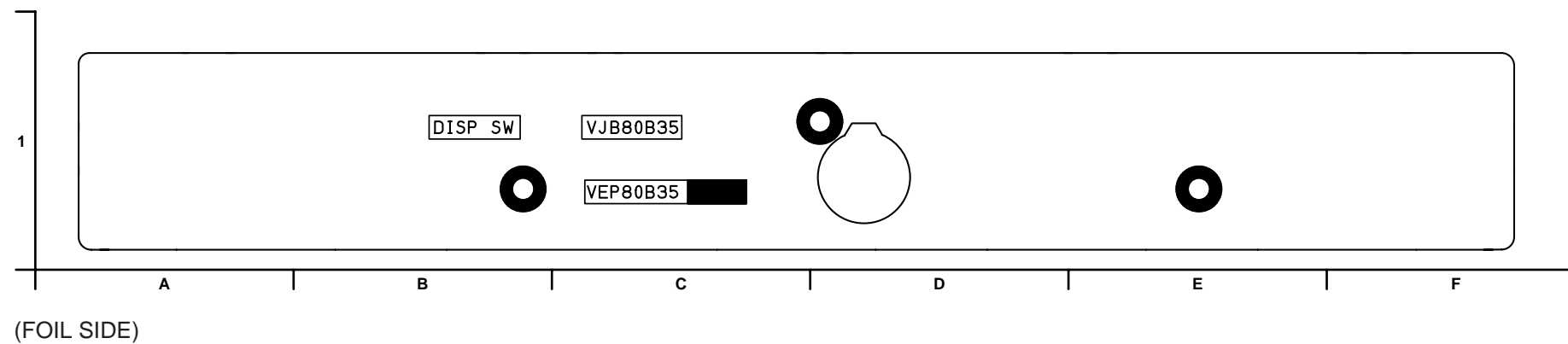
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IC68401	H1	Q68311	F1	QR68306	F1	QR68313	E1
Q68302	F1	Q68401	H1	QR68307	F1	QR68314	E1
Q68303	F1	QR68301	G1	QR68308	G1	QR68315	E1
Q68305	F1	QR68303	G1	QR68309	H1		
Q68306	F1	QR68304	G1	QR68310	E1		



## DISPLAY P.C. BOARD (VEP86292A)



## DISPLAY SW P.C. BOARD (VEP80B35A)





REAR JACK

REF.NO.4000 SERIES

EDL J7

P4102

J103

V2 VIDEO IN

V2 PB IN

V2 PR IN

J4 V2 REMOTE

V2 VIDEO OUT

V2 PB OUT

V2 PR OUT

J5

V2 VIDEO MON OUT

P4001

J101

V1 VIDEO IN

V1 PB IN

V1 PR IN

J3 V1 REMOTE

V1 VIDEO OUT

V1 PB OUT

V1 PR OUT

J2

V1 VIDEO MON OUT

P4002

P4003

J102

TC IN

REF IN

REF IN

1A

20A

1A

15A

1A

20A

1B

15B

1B

20B

J203

V2 CH1 IN

J204

MIC V2 CH2 IN

J201

V1 CH1 IN

J202

V1 CH2 IN

J205

AUDIO MON L OUT

J208

V2 CH1 OUT

J209

V2 CH2 OUT

J206

V1 CH1 OUT

J207

V1 CH2 OUT

J210

AUDIO MON R OUT

REF	LOC
P4001	D2
P4002	E2
P4003	F2
P4101	E3
P4102	C3
SW4001	B3

**REF.NO.4000 SERIES**

**REAR JACK**

**VJB84339**

**VEP84339**

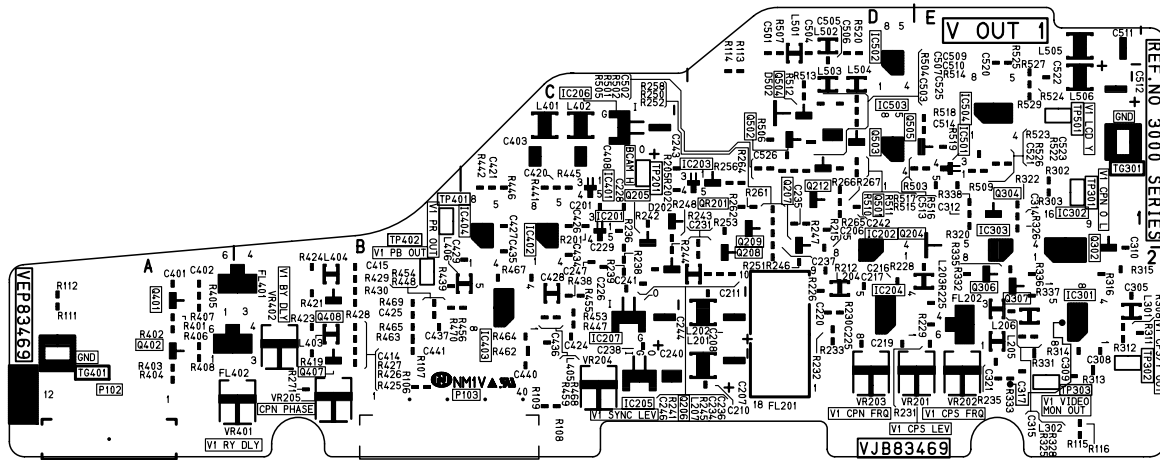
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IC3201	G3	Q4101	D3	Q4107	B3
IC3202	E2	Q4102	G3	Q4108	G3
IC3203	E2	Q4103	D3		
IC3207	E3	Q4104	F3		
P4007	I2	Q4105	C3		
P4008	I2	Q4106	F3		

## CBA-18



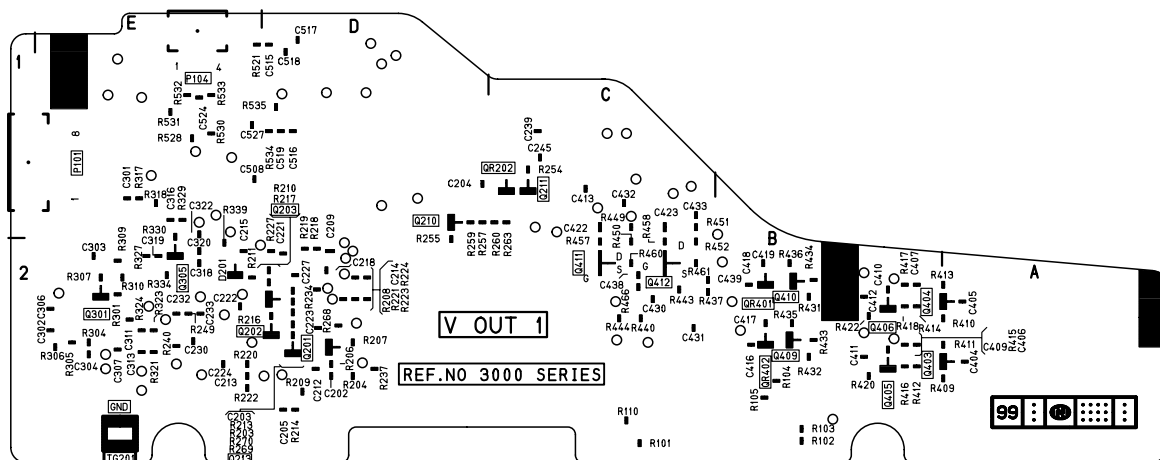
# V OUT 1 P.C. BOARD (VEP83469B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3201	C1	IC3303	E2	P3102	A2	Q3302	E1	Q3502	D1	TP3302	E2	VR3205	B2
IC3202	D2	IC3401	C1	P3103	B2	Q3304	E1	Q3503	D1	TP3303	E2	VR3401	B2
IC3203	C1	IC3402	C1	Q3204	E1	Q3306	E2	Q3504	D1	TP3401	B1	VR3402	B2
IC3204	D2	IC3403	C2	Q3205	C1	Q3307	E2	Q3505	E1	TP3402	B2		
IC3205	C2	IC3404	C1	Q3206	C2	Q3401	A2	QR3201	D1	TP3501	E1		
IC3206	C1	IC3501	E1	Q3207	D1	Q3402	A2	TG3301	E1	VR3201	E2		
IC3207	C2	IC3502	D1	Q3208	D2	Q3407	B2	TG3401	A2	VR3202	E2		
IC3301	E2	IC3503	D1	Q3209	D1	Q3408	B2	TP3201	C1	VR3203	D2		
IC3302	E2	IC3504	E1	Q3212	D1	Q3501	D1	TP3301	E1	VR3204	C2		



(COMPONENT SIDE)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
P3101	E1	Q3211	C1	Q3405	B2	QR3202	C1
P3104	E1	Q3213	D2	Q3406	B2	QR3401	B2
Q3201	D2	Q3301	E2	Q3409	B2	QR3402	B2
Q3202	D2	Q3305	E2	Q3410	B2	TG3201	E2
Q3203	D2	Q3403	A2	Q3411	C2		
Q3210	D1	Q3404	A2	Q3412	C2		

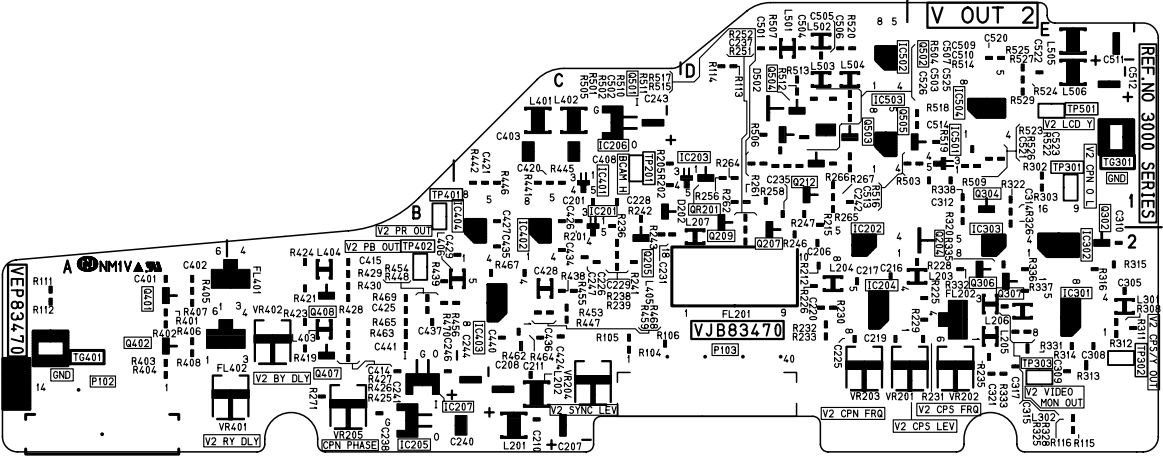


(FOIL SIDE)



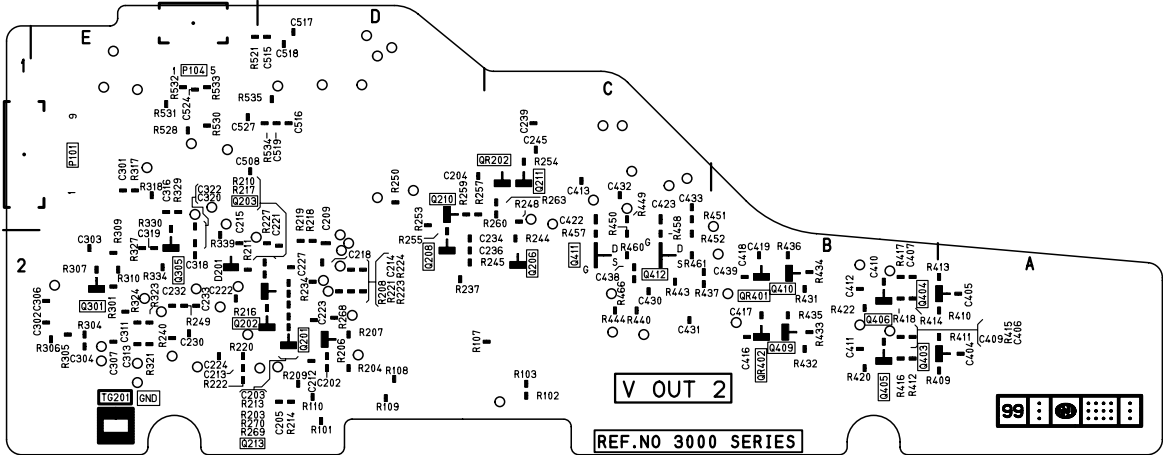
V OUT 2 P.C. BOARD (VEP83470B)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3201	C1	IC3303	E2	P3102	A2	Q3306	E2	Q3504	D1	TP3401	B1	VR3402	B2
IC3202	D2	IC3401	C1	P3103	D2	Q3307	E2	Q3505	E1	TP3402	B2		
IC3203	C1	IC3402	C1	P3204	E2	Q3401	A2	QR3201	D1	TP3501	E1		
IC3204	D2	IC3403	C2	Q3205	C2	Q3402	A2	TG3301	E1	VR3201	E2		
IC3205	B2	IC3404	C1	Q3207	D1	Q3407	B2	TG3401	A2	VR3202	E2		
IC3206	C1	IC3501	E1	Q3209	D1	Q3408	B2	TP3201	C1	VR3203	D2		
IC3207	B2	IC3502	D1	Q3212	D1	Q3501	D1	TP3301	E1	VR3204	C2		
IC3301	E2	IC3503	D1	Q3302	E2	Q3502	D1	TP3302	E2	VR3205	B2		
IC3302	E2	IC3504	E1	Q3304	E1	Q3503	D1	TP3303	E2	VR3401	B2		



(COMPONENT SIDE)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
P3101	E1	Q3208	D2	Q3403	A2	Q3411	C2
P3104	E1	Q3210	D1	Q3404	A2	Q3412	C2
Q3201	D2	Q3211	C1	Q3405	B2	QR3202	C1
Q3202	D2	Q3213	D2	Q3406	B2	QR3401	B2
Q3203	D2	Q3301	E2	Q3409	B2	QR3402	B2
Q3206	C2	Q3305	E2	Q3410	B2	TG3201	E2

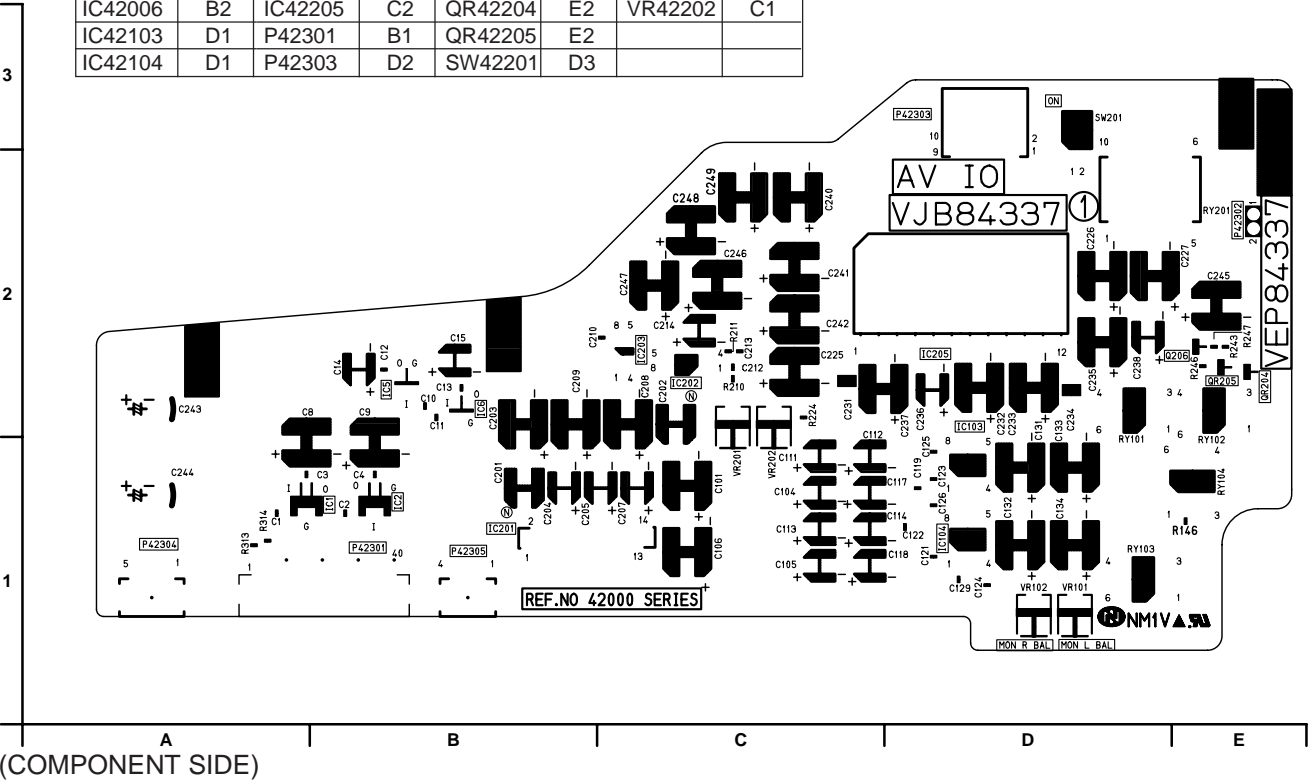


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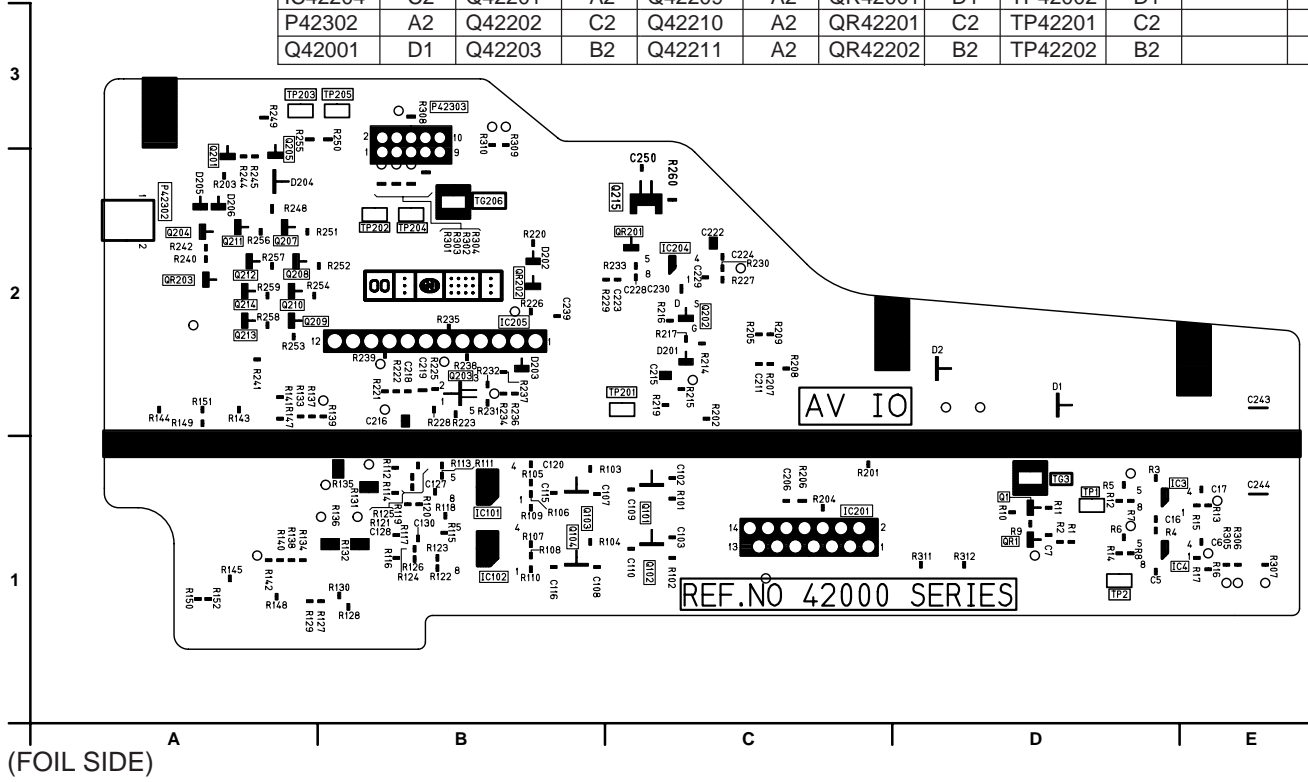


AV IO P.C. BOARD (VEP84337A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC42001	B1	IC42201	B1	P42304	A1	VR42101	D1
IC42002	B1	IC42202	C2	P42305	B1	VR42102	D1
IC42005	B2	IC42203	C2	Q42206	E2	VR42201	C1
IC42006	B2	IC42205	C2	QR42204	E2	VR42202	C1
IC42103	D1	P42301	B1	QR42205	E2		
IC42104	D1	P42303	D2	SW42201	D3		

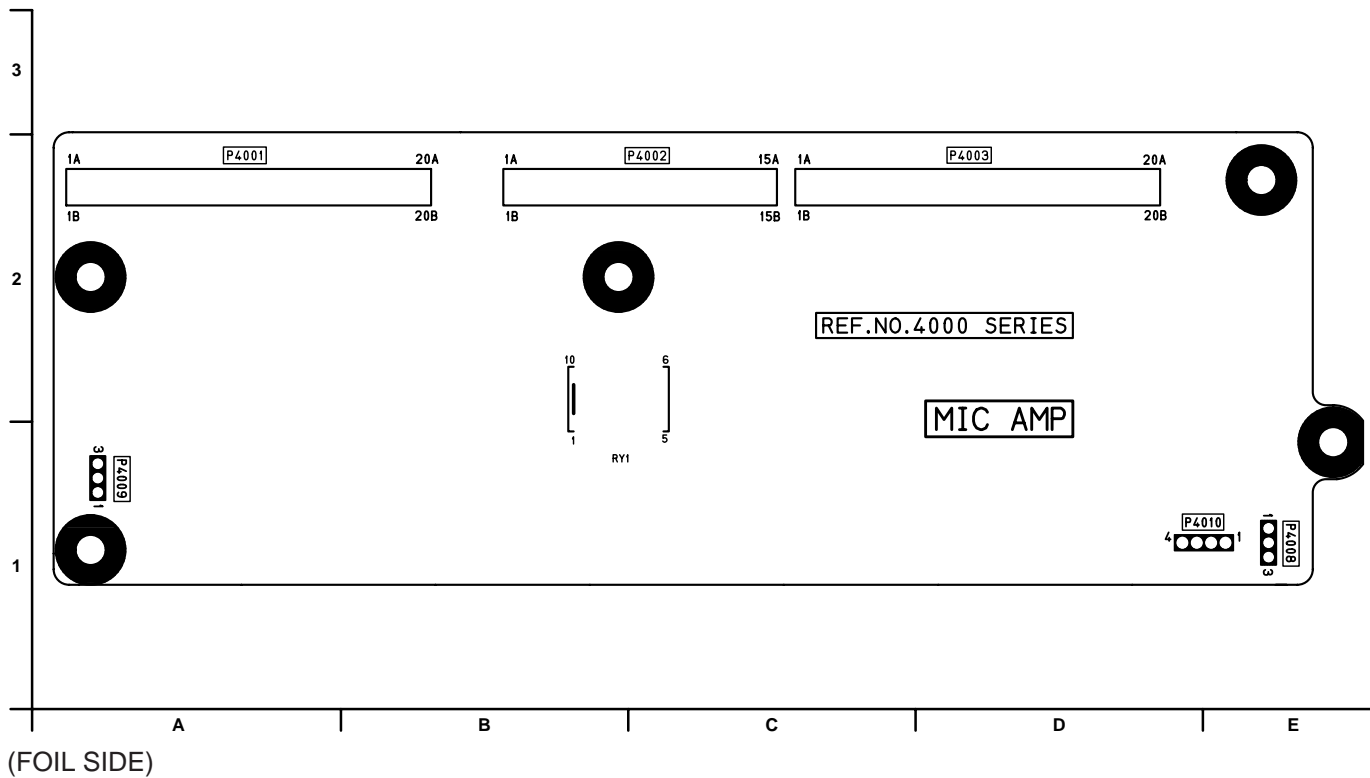
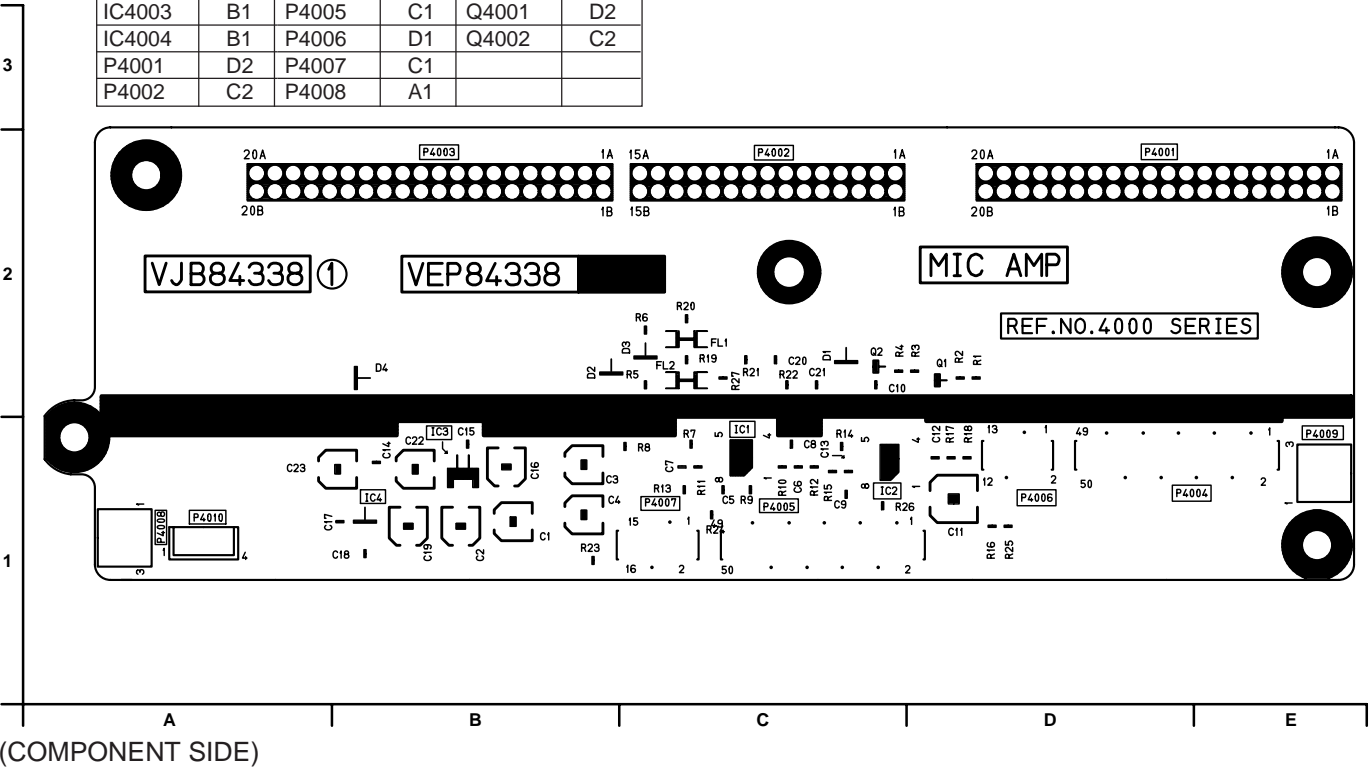


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IC42003	D1	Q42101	C1	Q42204	A2	Q42212	A2	QR42203	A2	TP42203	A3
IC42004	D1	Q42102	C1	Q42205	A2	Q42213	A2	TG42003	D1	TP42204	B2
IC42101	B1	Q42103	B1	Q42207	A2	Q42214	A2	TG42206	B2	TP42205	B3
IC42102	B1	Q42104	B1	Q42208	A2	Q42215	C2	TP42001	D1		
IC42204	C2	Q42201	A2	Q42209	A2	QR42001	D1	TP42002	D1		
P42302	A2	Q42202	C2	Q42210	A2	QR42201	C2	TP42201	C2		
Q42001	D1	Q42203	B2	Q42211	A2	QR42202	B2	TP42202	B2		



MIC AMP P.C. BOARD (VEP84338A)

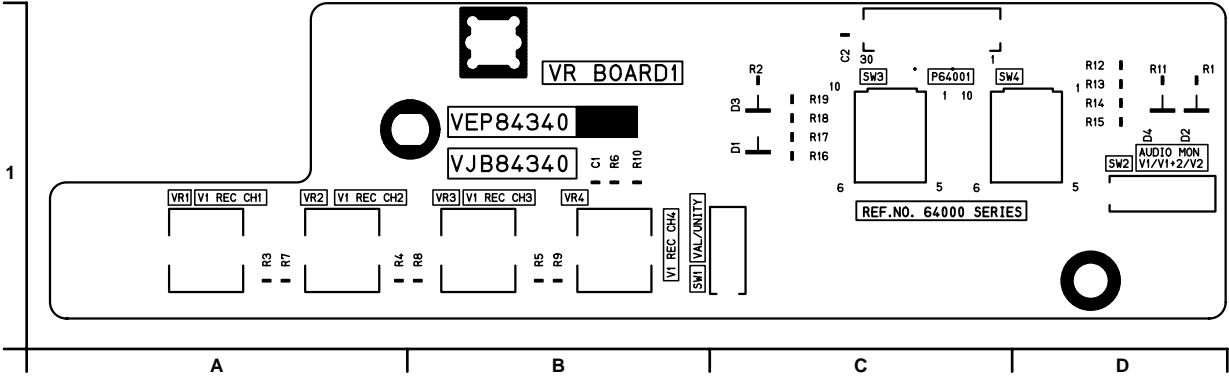
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IC4001	C1	P4003	B2	P4009	E1
IC4002	C1	P4004	D1	P4010	A1
IC4003	B1	P4005	C1	Q4001	D2
IC4004	B1	P4006	D1	Q4002	C2
P4001	D2	P4007	C1		
P4002	C2	P4008	A1		



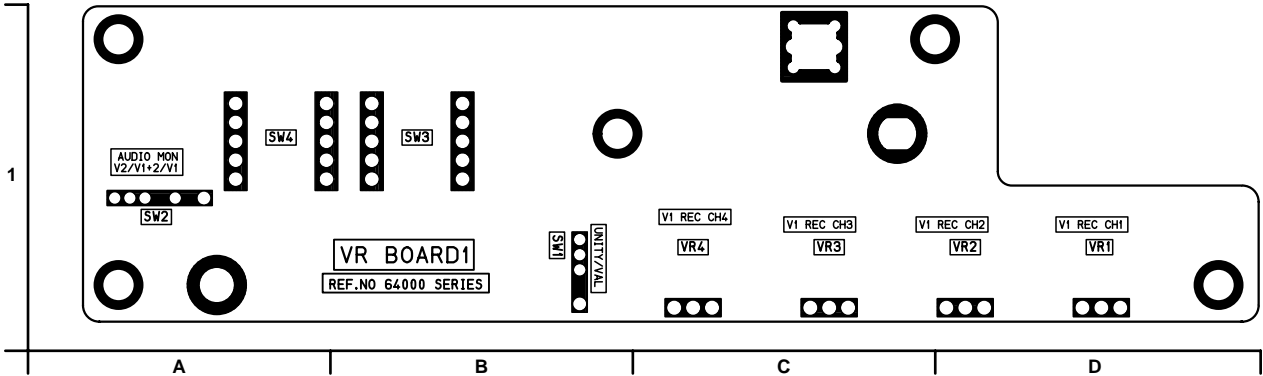


VR BOARD 1 P.C. BOARD (VEP84340A)

REF	LOC	REF	LOC
P64001	C1	VR64002	A1
SW64001	C1	VR64003	B1
SW64002	D1	VR64004	B1
SW64003	C1		
SW64004	D1		
VR64001	A1		



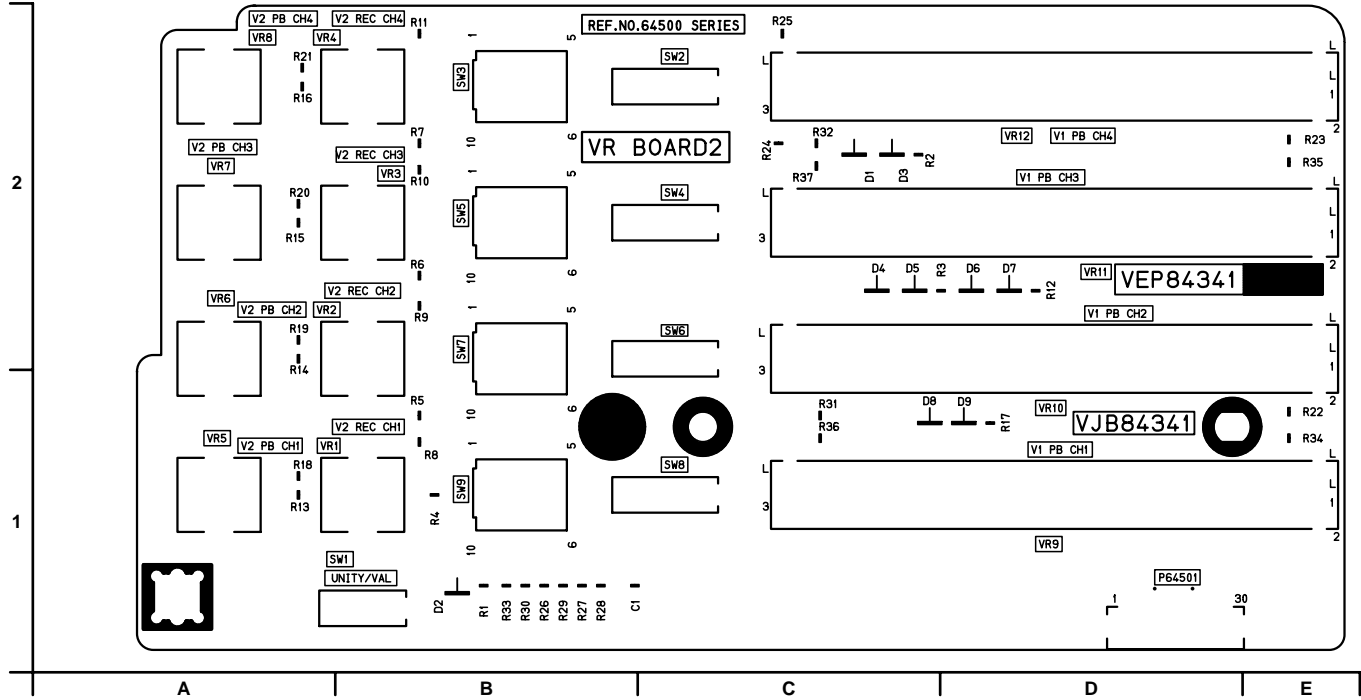
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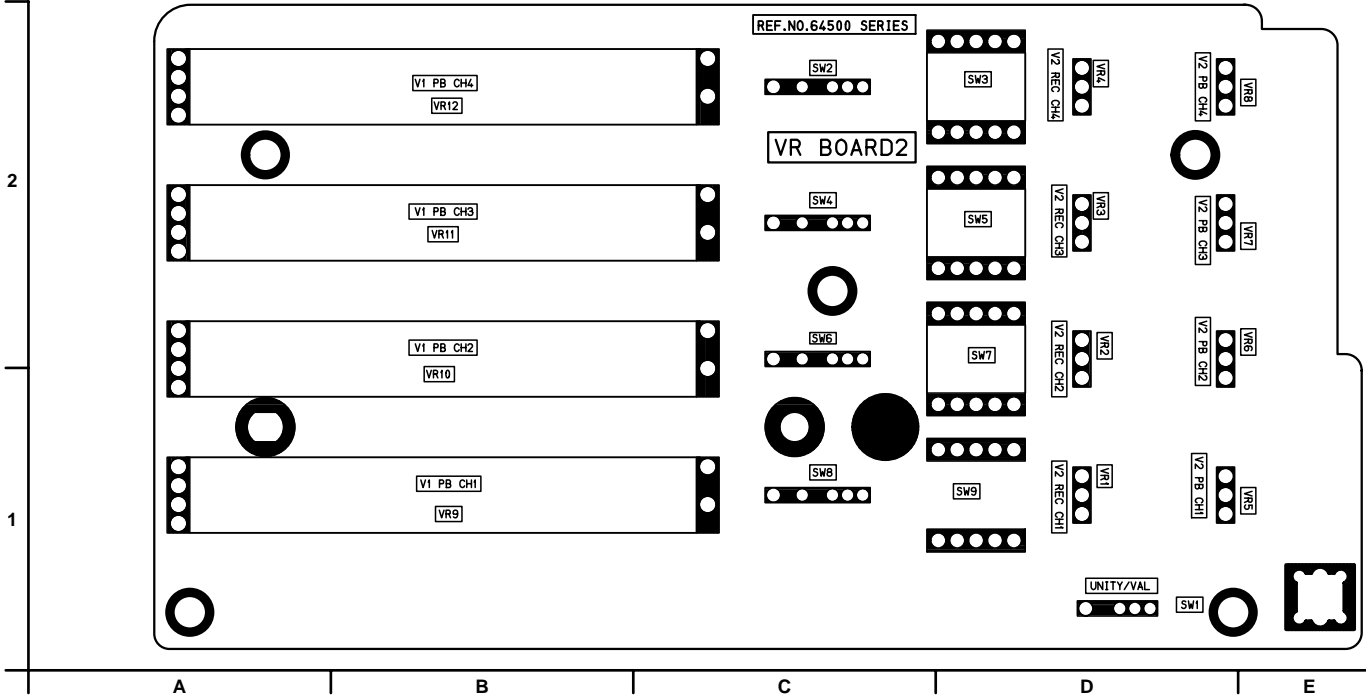
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VR BOARD 2 P.C. BOARD (VEP84341A)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
P64501	D1	SW64506	C1	VR64503	B2	VR64509	D1
SW64501	B1	SW64507	B1	VR64504	B2	VR64510	D1
SW64502	C2	SW64508	C1	VR64505	A1	VR64511	D2
SW64503	B2	SW64509	B1	VR64506	A1	VR64512	D2
SW64504	C2	VR64501	B1	VR64507	A2		
SW64505	B2	VR64502	B1	VR64508	A2		



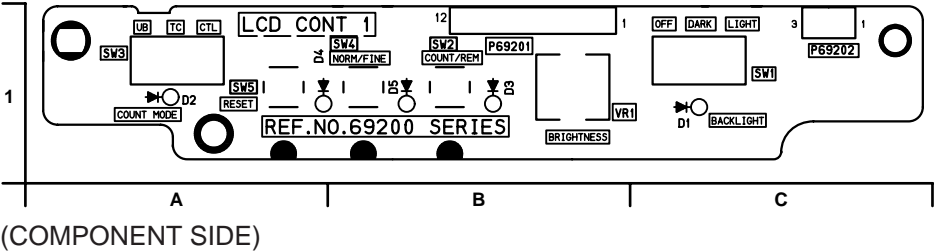
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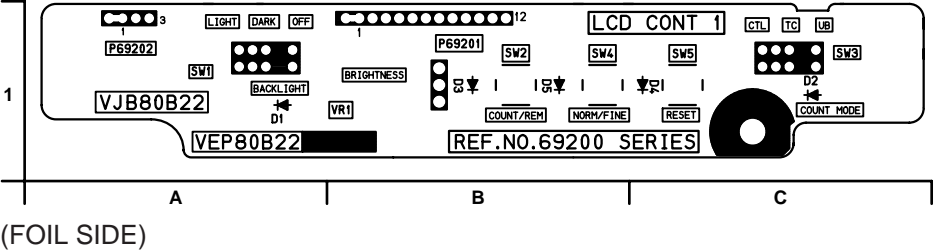
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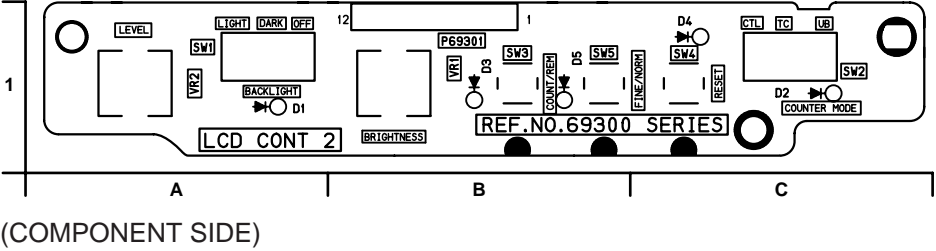
# LCD CONT 1 P.C. BOARD (VEP80B22A)



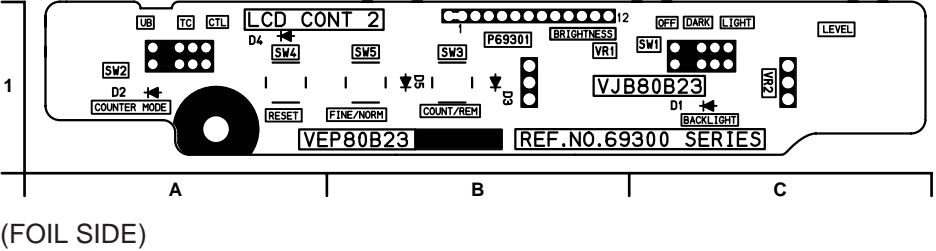
REF	LOC	REF	LOC
P69201	B1	SW69205	A1
P69202	C1	VR69201	B1
SW69201	C1		
SW69202	B1		
SW69203	A1		
SW69204	B1		



# LCD CONT 2 P.C. BOARD (VEP80B23A)



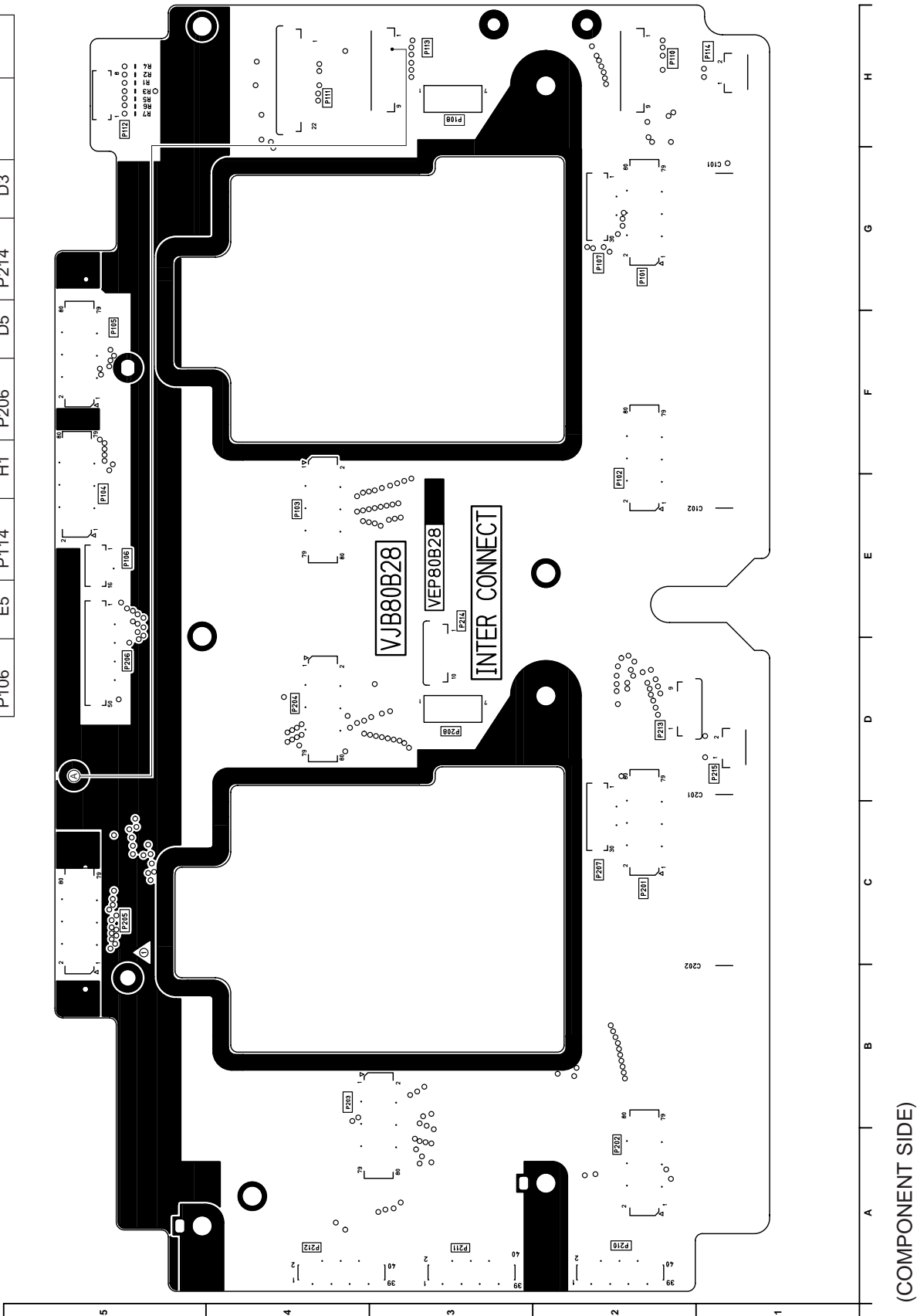
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P69301	B1	VR69301	B1
SW69301	A1	VR69302	A1
SW69302	C1		
SW69303	B1		
SW69304	C1		
SW69305	B1		





INTER CONNECT P.C. BOARD (VEP80B28A)

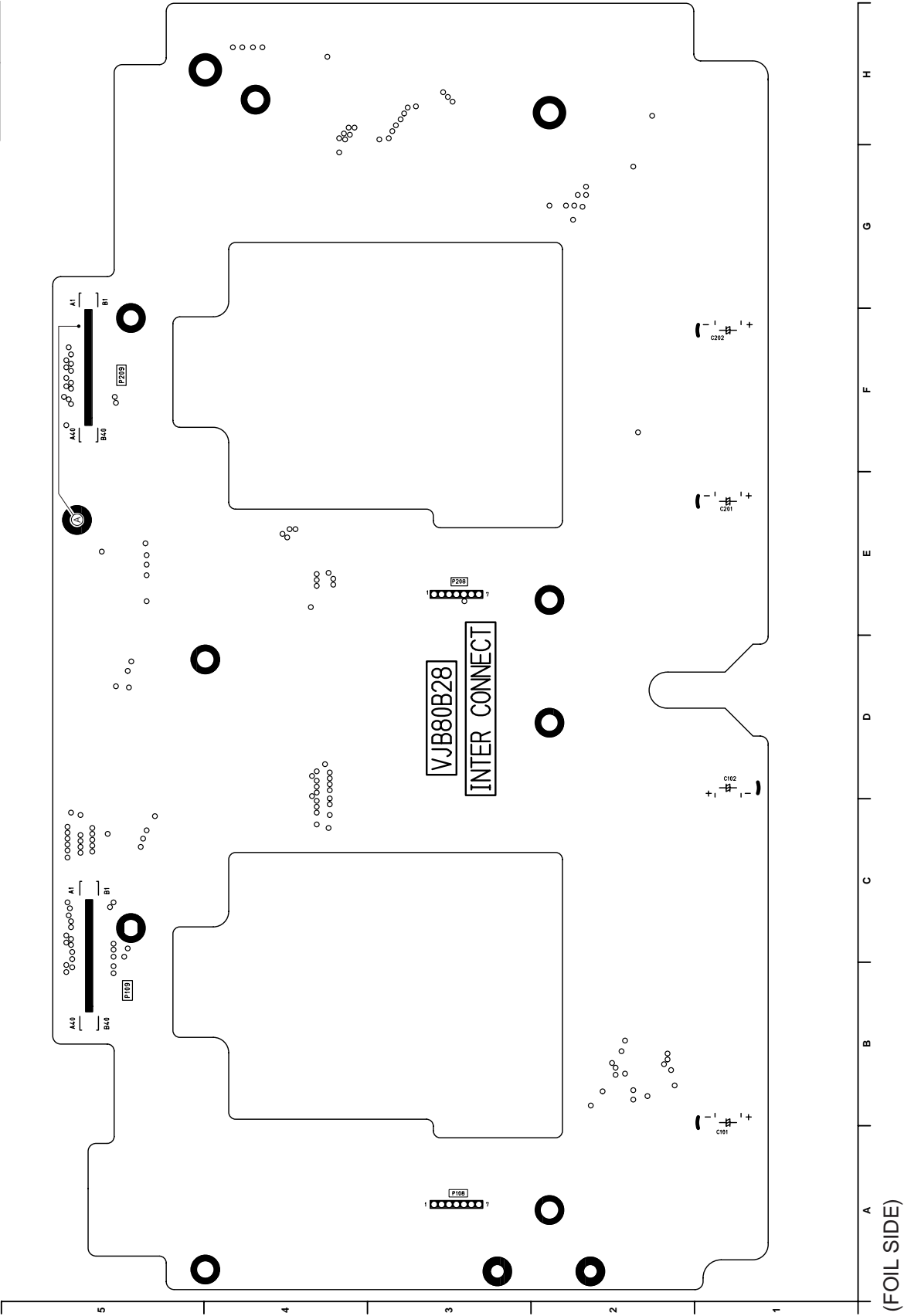
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P101	G2	P107	G2	P201	C2	P215	C2
P102	F2	P110	H2	P202	A2	P210	A2
P103	E4	P111	H4	P203	B3	P211	A3
P104	F5	P112	H5	P204	D4	P212	A4
P105	F5	P113	H3	P205	C5	P213	D1
P106	E5	P114	H1	P206	D5	P214	D3





INTER CONNECT P.C. BOARD (VEP80B28A)

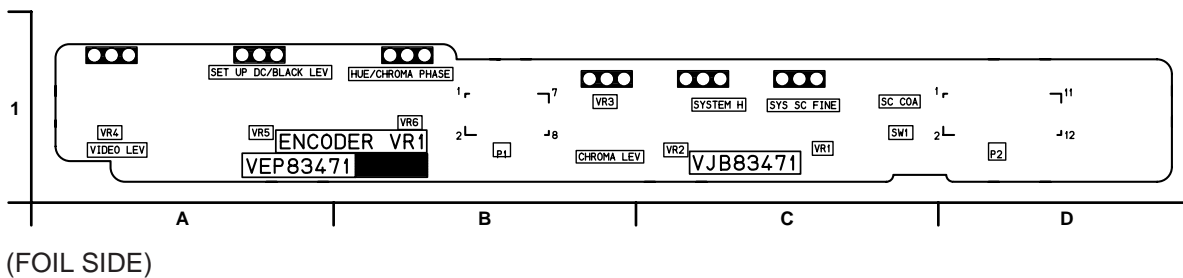
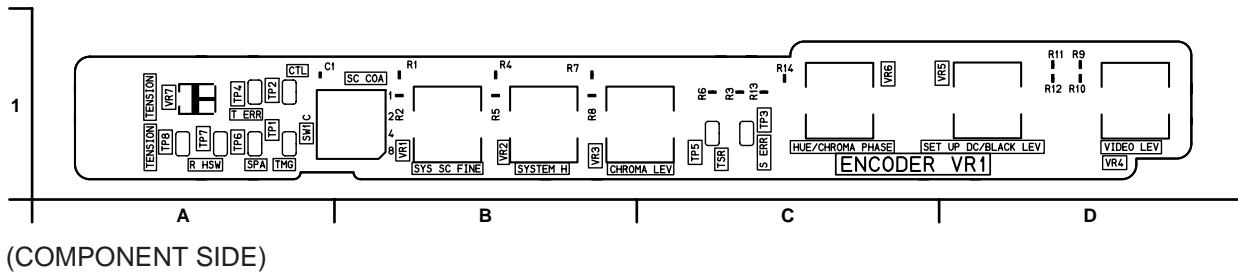
REF	LOC
P108	A3
P109	B5
P208	E3
P209	F5





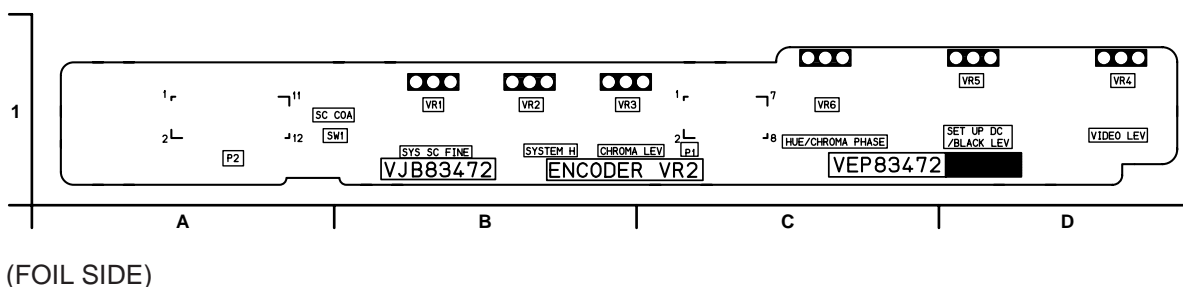
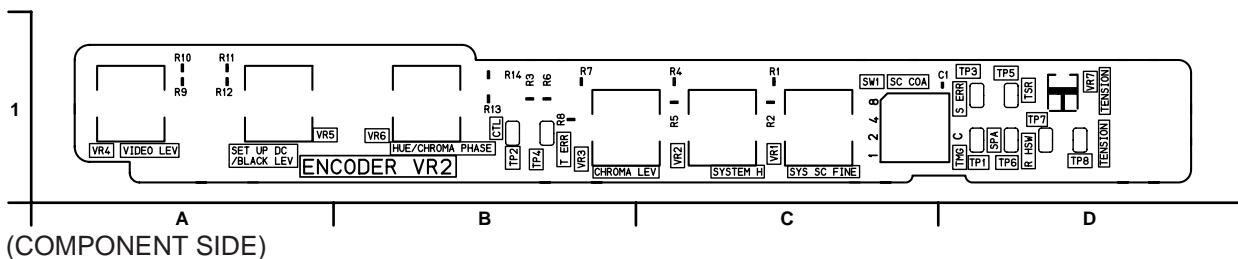
## ENCODER VR 1 P.C. BOARD (VEP83471A)

REF	LOC	REF	LOC	REF	LOC
SW1	B1	TP6	A1	VR4	D1
TP1	A1	TP7	A1	VR5	D1
TP2	A1	TP8	A1	VR6	C1
TP3	C1	VR1	B1	VR7	A1
TP4	A1	VR2	B1		
TP5	C1	VR3	C1		



## ENCODER VR 2 P.C. BOARD (VEP83472A)

REF	LOC	REF	LOC	REF	LOC
SW1	C1	TP6	D1	VR4	A1
TP1	D1	TP7	D1	VR5	A1
TP2	B1	TP8	D1	VR6	B1
TP3	D1	VR1	C1	VR7	D1
TP4	B1	VR2	C1		
TP5	D1	VR3	B1		





# SECTION 8

## EXPLODED VIEWS & REPLACEMENT PARTS LISTS

### Note:

1. \*Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS ( $\mu$ F), P= $\mu$ F.
3. The P.C. Board untills marked with "■" shown below the main assembled parts.
4. The parts marked with (E) on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE  
Components identified with the mark  $\Delta$  have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.  
After the diacontinuation of this assembly in production, it will no longer be available.

## CONTENTS

Chassis Frame Assembly (1) .....	PRT-1
Chassis Frame Assembly (2) .....	PRT-3
Chassis Frame Assembly (3) .....	PRT-5
Sub Chassis Assembly .....	PRT-7
Mechanical Chassis Assembly (1) .....	PRT-9
Mechanical Chassis Assembly (2) .....	PRT-11
Cassette Compartment Assembly .....	PRT-13
Packing Parts Assembly .....	PRT-15
Cable Connection .....	PRT-18
Electrical Replacement Parts List .....	PRT-19

## SERVICING FIXTURES & TOOLS

Ref.No	Part No.	Part Name & Description	Pcs	Remarks	Ref.No	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145A	BACK TENSION METER	1		21	VFK1178	HEX DRIVER (0.89MM)	1	
2	VFK1149A	POST DRIVER	1		22	VFK1179	HEX DRIVER (0.71MM)	1	
3	VFK71A	DIAL TORQUE GAUGE	1		23	VFK1190	HEX WRENCH (1.5MM)	1	
4	VFK1191A	DIAL TORQUE GAUGE	1		24	VFK1209A	TORQUE DRIVER	1	
5	VFK1152	GORQUE GAUGE ADAPTOR	1		25	VFK1375	TORQUE DRIVER ADAPTOR (1.5M)	1	
6	VFK0357	ECCENTRIC SCREWDRIVER	1		26	VFK1300	A/D BOARD (DAQ-12.QUATECH)	1	
7	VFK1154	POST HIGHT TOOL	1		27	VFM3680KM	ALIGNMENT TAPE (NO.1)	1	
8	VFK1153	MECH NEWTRAL PLATE	1		28	VFM3681KM	ALIGNMENT TAPE (NO.2)	1	
9	VFK1208	NEWTRAL POSITION TOOL	1		29	VFM3682KM	ALIGNMENT TAPE (NO.3)	1	
10	VFK1156	NEWTRAL POSITION TOOL	1		31	VFM3010EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	
11	VFK1155	NEWTRAL POSITION TOOL	1		32	VMF3000EDS	DV ALIGNMENT TAPE (LISTA)	1	
12	VFK1150	NUT DRIVER (5.2MM)	1		33	AJ-CL12MP	CLIEANING TAPE	1	
13	VFK1151	NUT DRIVER (2.5MM)	1		34	VFK1369	TAPE SENSOR ADJ CASS	1	
14	VFK1188A	DIAL TENSION GAUGE	1		35	VFK1481A	LISTA SOFT	1	
15	VFK0948A	CHECK LIGHT	1		37	VFK0338	TRIMMER ADJUSTMENT DRIVER	1	
16	VFK0749	FROIRAL GREASE	1		38	VFK0337	PHILIPS DRIVER	1	
17	MOR265	MORLYTONE GREASE	1		39	VFM3000EDS	DV ALIGNMENT TAPE (LISTA)	1	
18	VFK1146	PHILIPS DRIVER	1		39	VFK1503	SERVO VERSION UP SOFT	1	
19	VFK1147	SCREW DRIVER	1		40	VFK0906	OIL	1	
20	VFK1148	HEX DRIVER (1.5MM)	1						



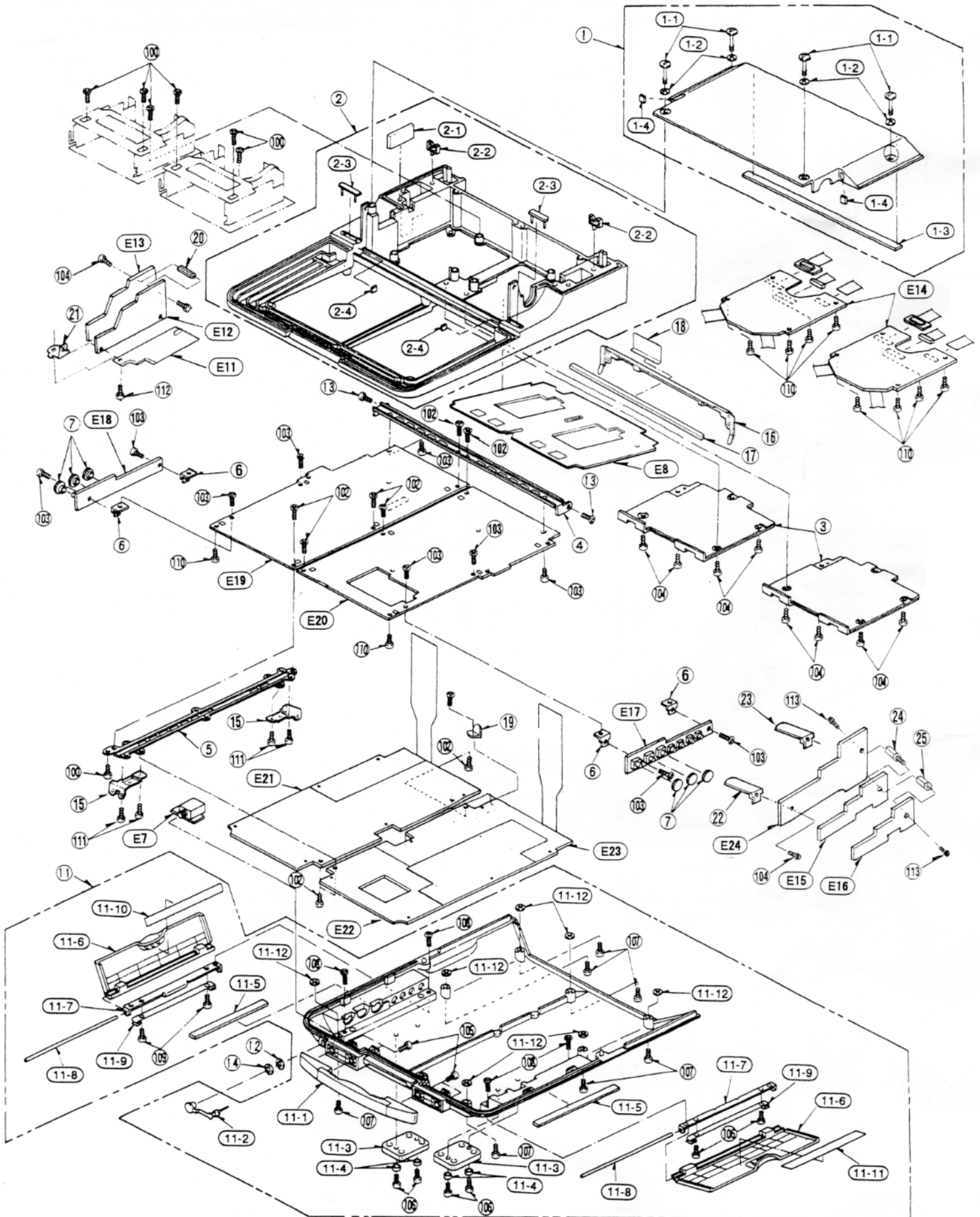
## CHASSIS FRAME ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK9690	TOP CASE ASS'Y	1	
1-1	VHD0820	SCREW	4	
1-2	VMX1090	SPACER	4	
1-3	VMX2663	TOP SPACER GUM	1	
1-4	VMG1054	LCD STOPPER GUM	2	
2	VYK9689	CASE ASS'Y	1	
2-1	VMZ2712	BRAKER CAP	1	
2-2	VJF1302	CLAMPER	2	
2-3	VMG1047	KEYBOARD DRIPROOF	2	
2-4	VMT0829	BODY DRIPPPOOF SHEET	2	
2-5	VMT1117	CUSHION (C)	1	
2-6	VMT1129	CUSHION (L)	1	
2-7	VMT1130	CUSHION (R)	1	
3	VYF2637	MECHA COVER	2	
4	VMP6222	P.C.B. HOLDER ANGLE (A)	1	
5	VMP6223	P.C.B. HOLDER ANGLE (B)	1	
6	VMP6344	SUB P.C.B. HOLDER ANGLE	4	
7	VXU1457	VR KNOB ASS'Y	6	
11	VYK9691	BOTTOM CASE (1) ASS'Y	1	
11-1	VKH0382	HANDLE	1	
11-2	VMG0386	HEAD PHONE CAP	1	
11-3	VKA0151	FOOT (B)	2	
11-4	VMX2207	SPACER	4	
11-5	VMT0819	DOOR CUSHION	2	
11-6	VKF3107	DOOR	2	
11-7	VMP5296	DOOR HOLDER ANGLE	2	
11-8	VMS6174	DOOR SHAFT	2	
11-9	VMC1552	DOOR SPRING	2	
11-10	VGH4050	DOOR NAME PLATE (L)	1	
11-11	VGH4051	DOOR NAME PLATE (R)	1	
11-12	VMX1558	NYLON WASHER	7	
12	VMX0531	CLATCH SPACER	1	
13	VHD0325	SCREW	2	
14	VHN0194	SPACER	1	
15	VMP6219	AXIS SUPPORT ANGLE	2	
16	VMP6220	BACK UP ANGLE	1	
17	VJF1406	EDGING	1	
18	VMZ3053	FLEX COVER SHEET	1	
19	VMP6221	AV HOLD ANGLE	1	
20	VMX2998	SPACER	3	
21	VMP5298	SAUB P.C.B. HOLDER ANGLE	2	
22	VMP6225	AV/IO ANGLE (2)	1	
23	VMP6224	AV/IO ANGLE (1)	1	
24	VMS6769090	SPACER	3	
25	VMS4295	GUIDE PIN	3	
26	VMT0884	GASKET	2	
27	VMT0885	GASKET	2	
28	VMG0832	SHIELD TUBE	1	
100	XYN3+C8	SCREW	7	
101	XYN3+E8RS	SCREW	2	
102	XTV3+8FR	SCREW	9	
103	XYE3+EF8FR	SCREW	14	
104	XYN3+K8	SCREW	16	
105	XYN4+F14	SCREW	4	
106	XSB3+6FZ	SCREW	4	
107	XSB3+10FZ	SCREW	7	
108	XTV3+5F	SCREW	4	
109	XQN2+A3	SCREW	4	
110	XYN26+K6	SCREW	8	
111	XYN3+C6	SCREW	2	
112	XTV3+8F	SCREW	4	
113	XYN3+K6	SCREW	6	
E7	VEP80B27A	FRONT JACK P.C.BOARD	1	
E8	VEP80B28A	INTER CONNECTION P.C.B.	1	
E11	VEP81194A	POWER 1 P.C.BOARD	1	
E12	VEP81195A	POWER 2 P.C.BOARD	1	
E13	VEP81196A	POWER 3 P.C.BOARD	1	
E15	VEP83469A	V OUT 1 P.C.BOARD	1	

Page 1 of 1



# CHASSIS FRAME ASSEMBLY(1)



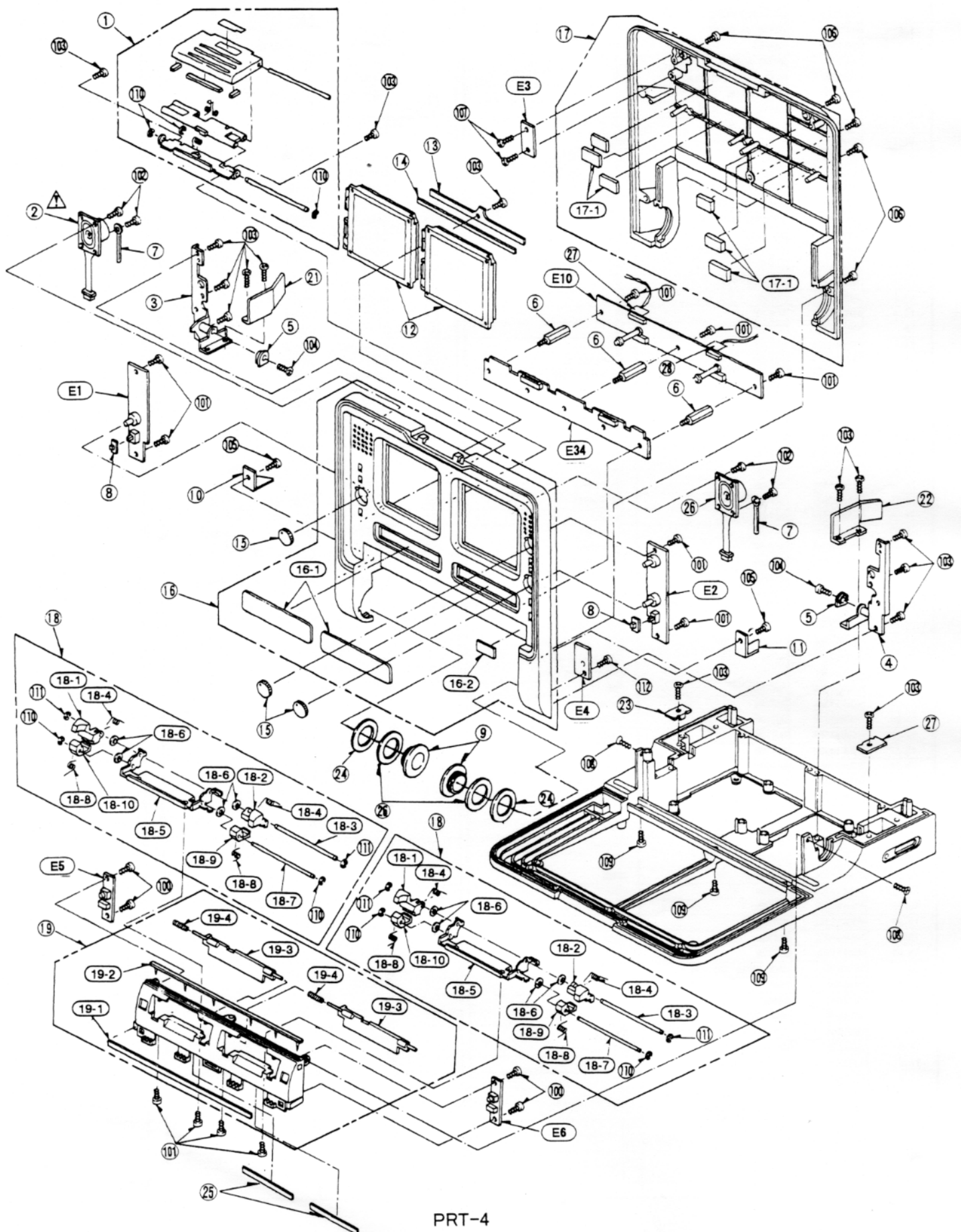


# CHASSIS FRAME ASSEMBLY (2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYQ1869	BACKLE ASS'Y	1		E34	VEP86292A	DISPLAY P.C.BOARD	1	
2	VEK8974	V1 SPEAKER	2						
3	VYQ1503	TURNING ANGLE (L)	1						
4	VYQ1504	TURNING ANGLE (R)	1						
5	VMX2652	EDGE SPACER	2						
6	VMS6175	P.C.B. POST	3						
7	VJF1034	CLAMPER	2						
8	VGU7465	SLIDE KNOB	2						
9	VMX2642	DRIPPROOF RING	2						
10	VMZ2704	INSULATION SHEET (L)	1						
11	VMZ2705	INSULATION SHEET (R)	1						
12	TR-LM7WSIVS	LCD UNIT	2						
13	VMP5294	LCD MOUNT ANGLE	1						
14	VMT0815	LCD HOLDER ANGLE CUSHION	1						
15	VXU1457	VR KNOB ASS'Y	3						
16	VYP6977	LCD PANEL (1) ASS'Y	1						
16-1	VGM1353	LCD PANEL	1						
16-2	VKW2340	COUNTER WINDOW	2						
16-3	VGB0460	DVCPRO BADGE	1						
17	VYF2725	LCD COVER (1) ASS'Y	1						
17-1	VMT1091	LCD HOLDER CUSHION	7						
18	VYQ1653	CASSETTE GUIDE ASS'Y	2						
18-1	VGQ4009	CASSETTE GUIDE (L)	2						
18-2	VGQ4010	CASSETTE GUIDE (R)	2						
18-3	VMS5864	CASSETTE COVER	2						
18-4	VMB2922	CASSETTE GUIDE SPRING	4						
18-5	VMP4863	CASSETTE GUIDE ANGLE	2						
18-6	VMX2562	WASHER	8						
18-7	VMS6017	GUIDE CAM SHAFT	2						
18-8	VMB2986	CAM SPRING	4						
18-9	VDK0151	CASSETTE GUIDE CAM (L)	2						
18-10	VDK0152	CASSETTE GUIDE CAM (R)	2						
19	VYP7597	FRONT PANEL (1) ASS'Y	1						
19-1	VMT0883	GASKET	1						
19-2	VMG1045	TOP DRIPROOF	1						
19-3	VKF2906	BLINDER PANEL	2						
19-4	VMB3125	BLIND SPRING	2						
20	VWJ20C6080T0	FFC	4						
21	VMP5339	CABLE GUARD ANGLE (L)	1						
22	VMP5340	CABLE GUARD ANGLE (R)	1						
23	VMP6547	CABLE HOLDER ANGLE (L)	1						
24	VMT0860	CUSHION	4						
25	VMT0880	GASKET (F)	2						
26	VEK8975	V2 SPEAKER	1						
27	VMP6548	CABLE HOLDER ANGLE (R)	1						
28	VMT0874	GASKET (E)	2						
29	VMG0832	SHIELD TUBE	1						
100	XTV3+8GFR	SCREW	4						
101	XYN3+K8	SCREW	11						
102	XSB3+6	SCREW	4						
103	XYN3+C8	SCREW	14						
104	XYN26+K8	SCREW	2						
105	XYN3+F8	SCREW	2						
106	XSB4+6FZ	SCREW	5						
107	XYN26+K8	SCREW	2						
108	XSS3+8FZ	SCREW	2						
109	XTV3+8G	SCREW	3						
110	XUC2FP	E-RING	10						
111	XUC25FP	E-RING	4						
112	XYN26+K5	SCREW	1						
E1	VEP80B22A	LCD CONTROL 1 P.C.BOARD	1						
E2	VEP80B23A	LCD CONTROL 2 P.C.BOARD	1						
E3	VEP80B24A	TOP LED P.C.BOARD	1						
E4	VEP80B25A	TOP SW P.C.BOARD	1						
E5	VEP80B26A	EJECT SW 1 P.C.BOARD	1						
E6	VEP80B41A	EJECT SW 2 P.C.BOARD	1						
E10	VEP80B35A	DISPLAY SW P.C.BOARD	1						
E33	VEP86291A	DISPLAY CONTROL P.C.BOARD	1						



# CHASSIS FRAME ASSEMBLY(2)





Components identified with the mark  $\Delta$  have the special characteristics for safety.  
When replacing any of these components, use only the same type.

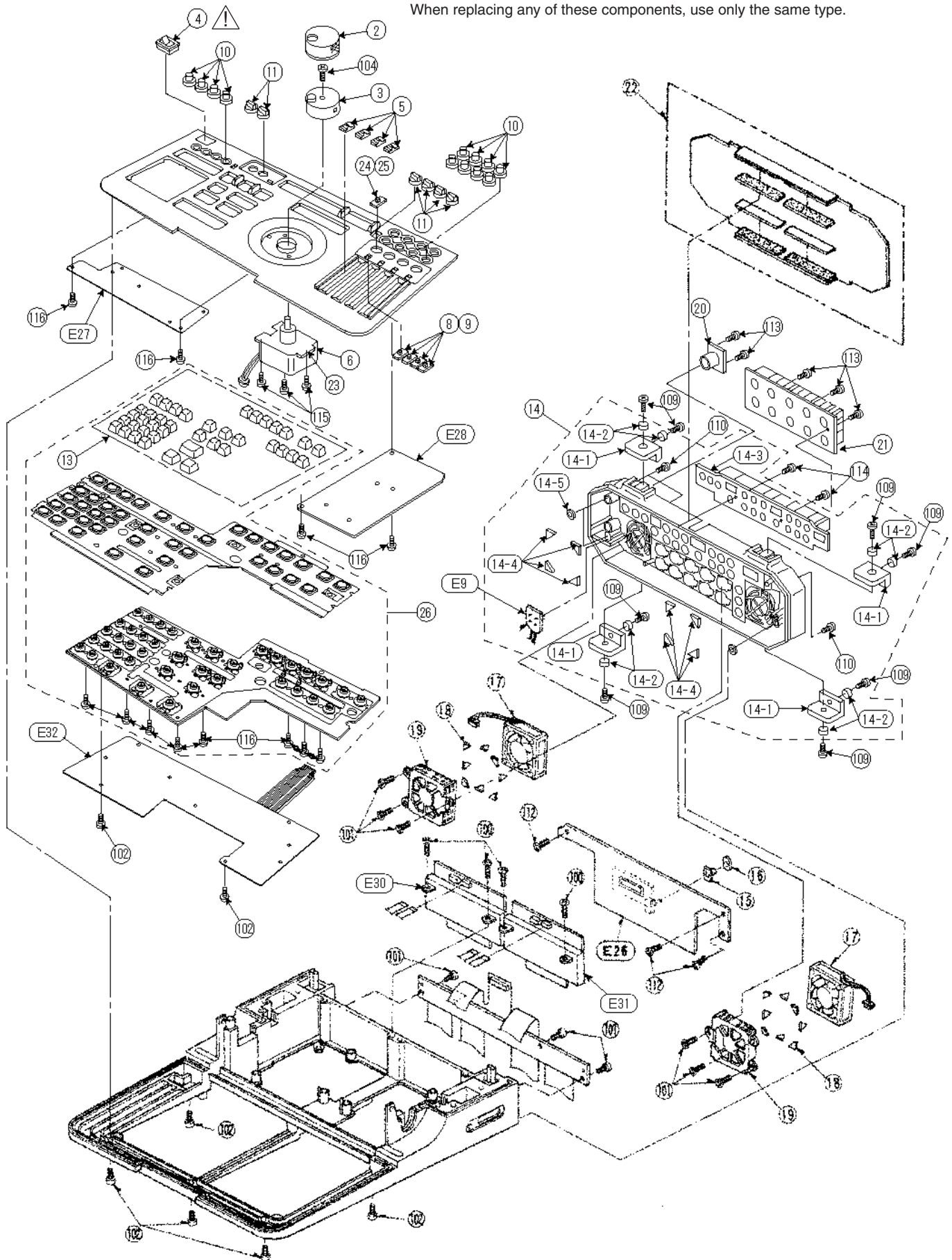
## CHASSIS FRAME ASSEMBLY (3)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP7594	KEYBOARD PANEL (1) ASS'Y	1		20	VJP4393	CONNECTOR (MALE)	1	
1-1	VGf0679	SLIDE VR SHEET	2		21	VGh4379	JACK NAME PLATE (B)	1	
1-2	VMt0825	GASKET	2		22	VKf3002	BAKC CASE COVER ASS'Y	1	
1-3	VKW2341	EVENT WINDOW	1		23	VGf0802	DUST COVER	1	
1-4	VGh3957	OPERATION NAME PLATE	1		24	VGU7465	SLIDE KNOB	2	
2	VGU5780	SEARCH DIAL COVER	2		25	VGh4377	SLIDE KNOB SHEET	2	
3	VGU8126	SEARCH DIAL KNOB	2						
4	VES0847	POWER SW ASS'Y	1						
5	VGU8041	SLIDE VR KNOB	4		100	XSB3+6FR	SCREW	4	
6	VSP1120	SEARCH DIAL	2		101	XYN3+K8	SCREW	4	
7	VGU7465	SLIDE KNOB	5		102	XTV3+8G	SCREW	6	
8	VMG1085	RAIN COVER RUBBER	5		103	XTV3+8GFR	SCREW	15	
9	VGU7688	SLIDE SW COVER	5		104	XSN2+8	SCREW	2	
10	VGU7469	VR KNOB	1		105	XYE3+EF8FR	SCREW	2	
11	VGU8400	VR KNOB (B)	2		106	XSB3+4FZ	SCREW	1	
12	VYF2401	BACK COVER ASS'Y	1		107	XNG3C	NUT	1	
12-1	VHD1169	SCREW	1		108	XYN3+C8FCS	SCREW	1	
12-2	VMX1558	NYLON WASHER	1		109	XSB3+6FZ	SCREW	8	
12-3	VMW0196	CHAIN	1		110	XSB3+12FZ	SCREW	4	
12-4	VMX1090	SPACER	1		111	XYN3+F8FXRS	SCREW	1	
13	VXU1562	KEYTOP SET	1		112	XYN3+E8RS	SCREW	2	
13-1	VGU8533AA	BUTTON	1	EVENT	113	XSN26+8FC	SCREW	22	
13-2	VGU8533AB	BUTTON	1	IN(LAST X)	114	XSN3+6FZ	SCREW	8	
13-3	VGU8533AC	BUTTON	1	OUT(LAST ED)	115	XTN4+10G	SCREW	3	
13-4	VGU8533AD	BUTTON	1	DUR(TOTAL)	116	XTB3+8G	SCREW	19	
13-5	VGU8533AE	BUTTON	1	7(SET UP)					
13-6	VGU8533AF	BUTTON	1	8					
13-7	VGU8533AG	BUTTON	1	9(INFO)					
13-8	VGU8533AH	BUTTON	1	• (F/TC)	E9	VEP80B32A	DC IN P.C.BOARD	1	
13-9	VGU8533AJ	BUTTON	1	4(LIST)	E25	VEP84338A	MIC AMP P.C.BOARD	1	
13-10	VGU8533AK	BUTTON	1	5(CORCT)	E26	VEP84339A	REAR JACK P.C.BOARD	1	
13-11	VGU8533AL	BUTTON	1	6(TRACK)	E27	VEP84340A	VR BAORD 1 P.C. BOARD	1	
13-12	VGU8533AM	BUTTON	1	-(BS)	E28	VEP84341A	VR BOARD 2 P.C. BOARD	1	
13-13	VGU8533AN	BUTTON	1	1(DUMP)	E30	VEP85182A	RF AMP 1 P.C. BOARD	1	
13-14	VGU8533AP	BUTTON	1	2(LOAD)	E31	VEP85183A	RF AMP 2 P.C. BOARD	1	
13-15	VGU8533AQ	BUTTON	1	3(T SET)	E32	VEP86290A	MAIN CONTROL P.C.BOARD	1	
13-16	VGU8533AR	BUTTON	1	+(FS)	E37	VEB0756A	KEY BOARD ASS'Y	1	
13-17	VGU8533AS	BUTTON	1	0(DISP)					
13-18	VGU8533AT	BUTTON	1	C(EXIT)					
13-19	VGU8533AU	BUTTON	1	ENTER(RETURN)					
13-20	VGU8533BA	BUTTON	1	GO TO(GO TO OUT)					
13-21	VGU8533BB	BUTTON	1	AUTO EDIT(MULTI)					
13-22	VGU8533BC	BUTTON	1	PREVIEW(REVIEW)					
13-23	VGU8533BD	BUTTON	1	SPLIT					
13-24	VGU8533BE	BUTTON	1	VTR1					
13-25	VGU8533BF	BUTTON	1	VTR2					
13-26	VGU8533BG	BUTTON	1	MARK IN					
13-27	VGU8533BH	BUTTON	1	MARK OUT					
13-28	VGU8533BJ	BUTTON	1	SHIFT					
13-29	VGU8533BK	BUTTON	1	ALL STOP					
13-30	VGU8533CA	BUTTON	1	ASMBL(1ST EDIT)					
13-31	VGU8533CB	BUTTON	1	V					
13-32	VGU8533CC	BUTTON	1	A1(A3)					
13-33	VGU8533CD	BUTTON	1	A2(A4)					
13-34	VGU8533CE	BUTTON	1	TC					
13-35	VGU8533CF	BUTTON	1	REC					
13-36	VGU8533CG	BUTTON	1	EDIT					
13-37	VGU8533CH	BUTTON	1	PLAY(STOP)					
13-38	VGU8533CJ	BUTTON	1	STILL(STB OFF)					
13-39	VGU8533CK	BUTTON	1	REW					
13-40	VGU8533CL	BUTTON	1	FF					
14	VEJ1930	JACK PANEL (1) ASS'Y	1						
14-1	VKA0304	FOOT	4						
14-2	VMX2207	SPACER	8						
14-3	VGh4378	JACK NAME PLATE (A)	1						
14-4	VMG1044	FAN MOTOR VIBRATION PROOF GUM	8						
14-5	VMX1558	NYLON WASHER	4						
14-6	VJS3462	CONNECTOR (FEMALE)	1						
14-7	VKF0834	EAR PHONE JACK	1						
15	VGU7152	SLIDE SW COVER B	1						
16	VMG0947	SLIDE KNOB RUBBER	1						
17	VRF0193	FAN MOTOR	2						
18	VMG1044	FAN MOTOR VIBRATION PROOF GUM	16						
19	VMP5295	FAN MOTOR ANGLE	2						



### CHASSIS FRAME ASSEMBLY(3)

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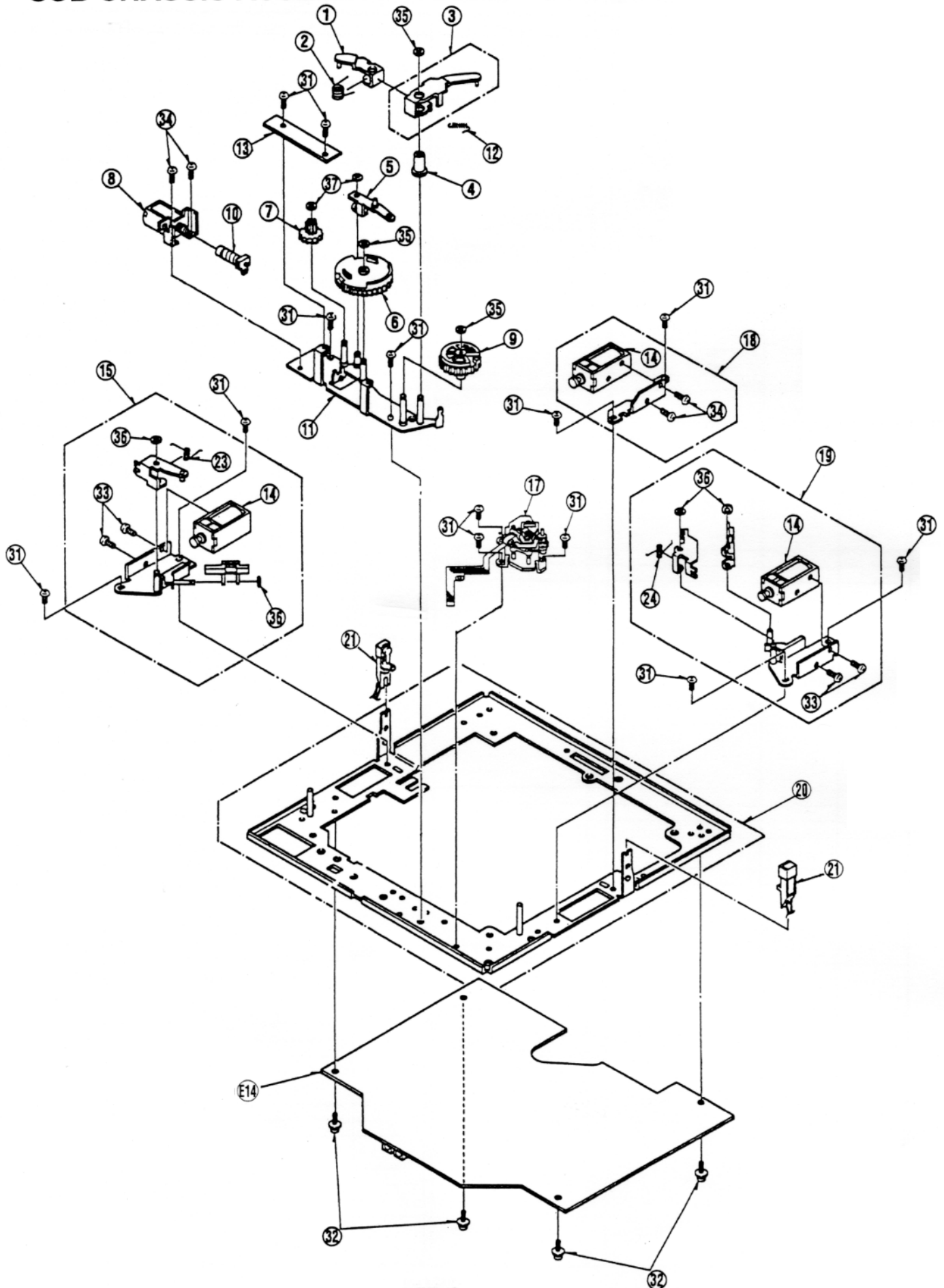


## SUB CHASSIS ASSEMBLY

[illegible]



# SUB CHASSIS ASSEMBLY






Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

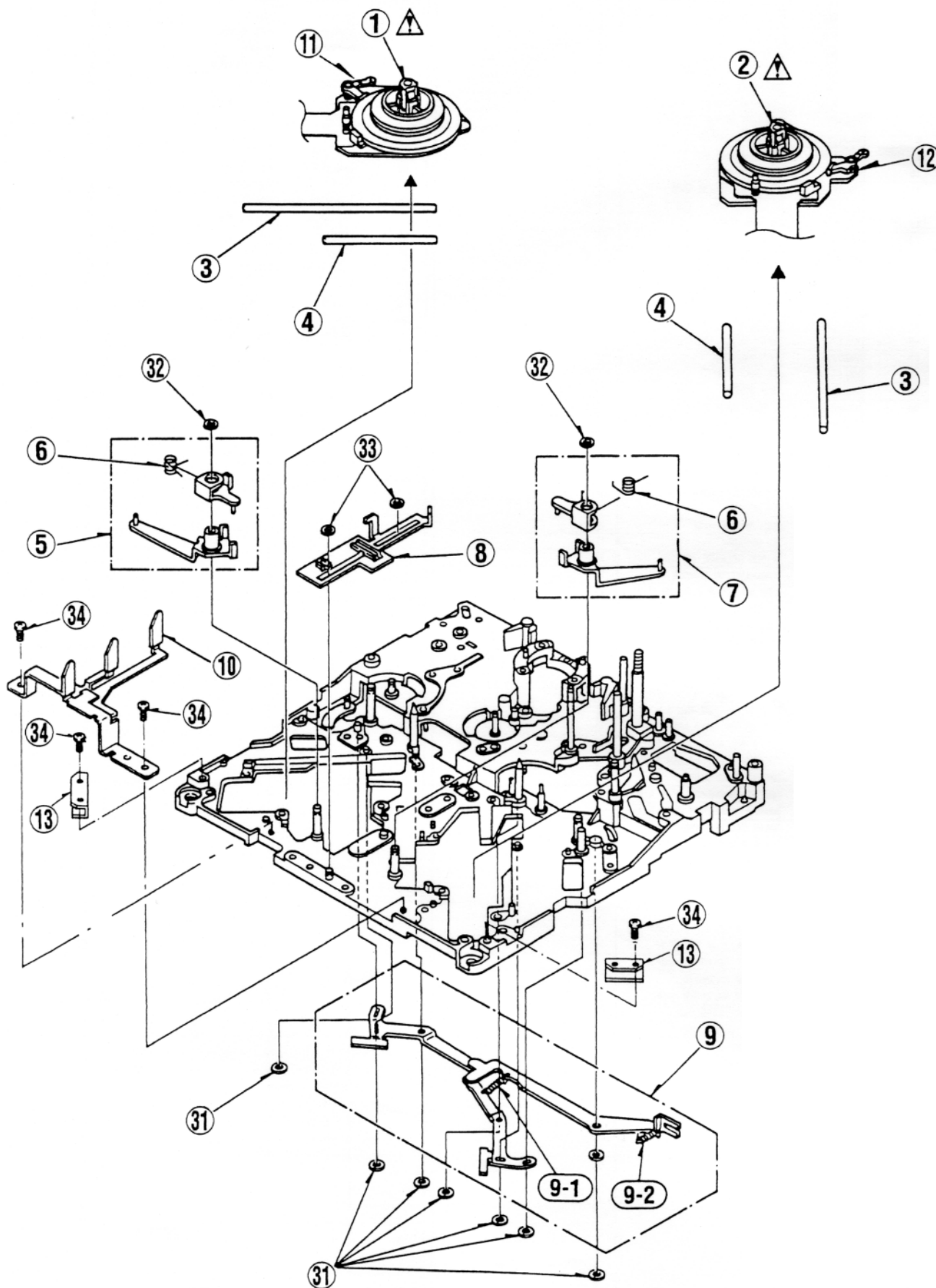
## MECHANICAL CHASSIS ASSEMBLY (1)

[illegible]



Components identified with the mark  have the special characteristics for safety.  
When replacing any of these components, use only the same type.

## MECHANICAL CHASSIS ASSEMBLY(1)






Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.

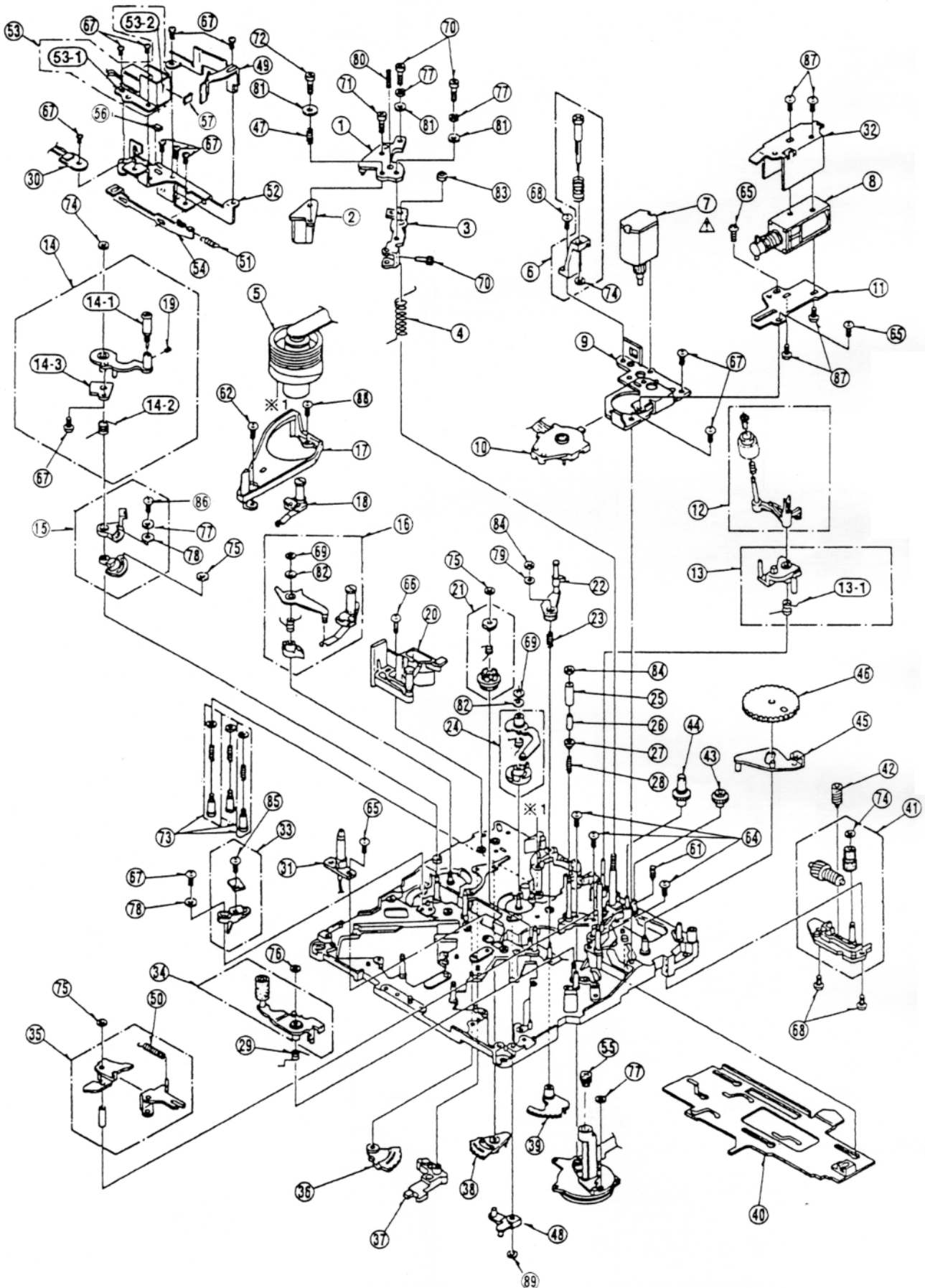
## MECHANICAL CHASSIS ASSEMBLY (2)

[illegible]



Components identified with the mark  have the special characteristics for safety.  
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## MECHANICAL CHASSIS ASSEMBLY(2)



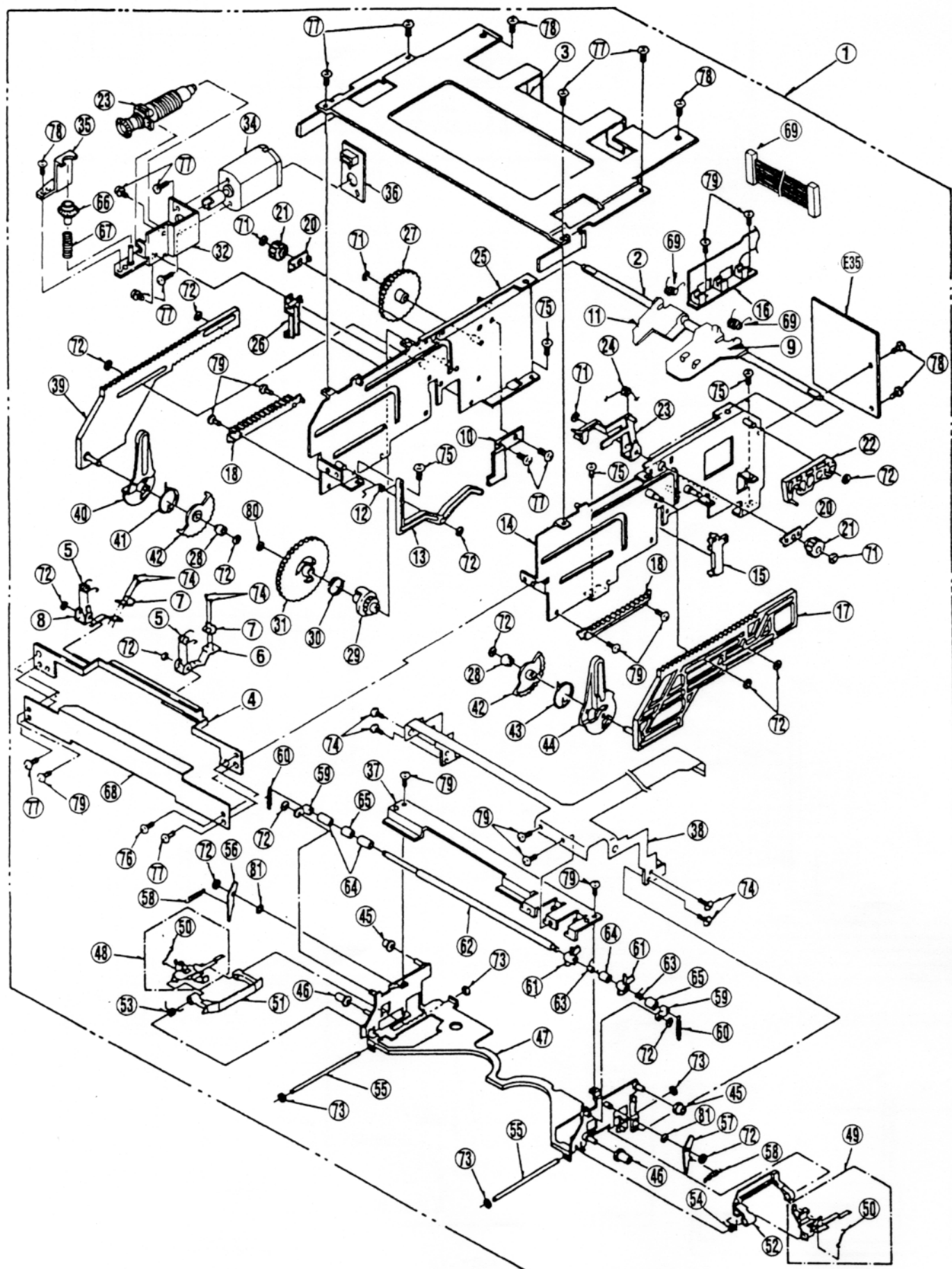


## CASSETTE COMPARTMENT ASSEMBLY

[illegible]




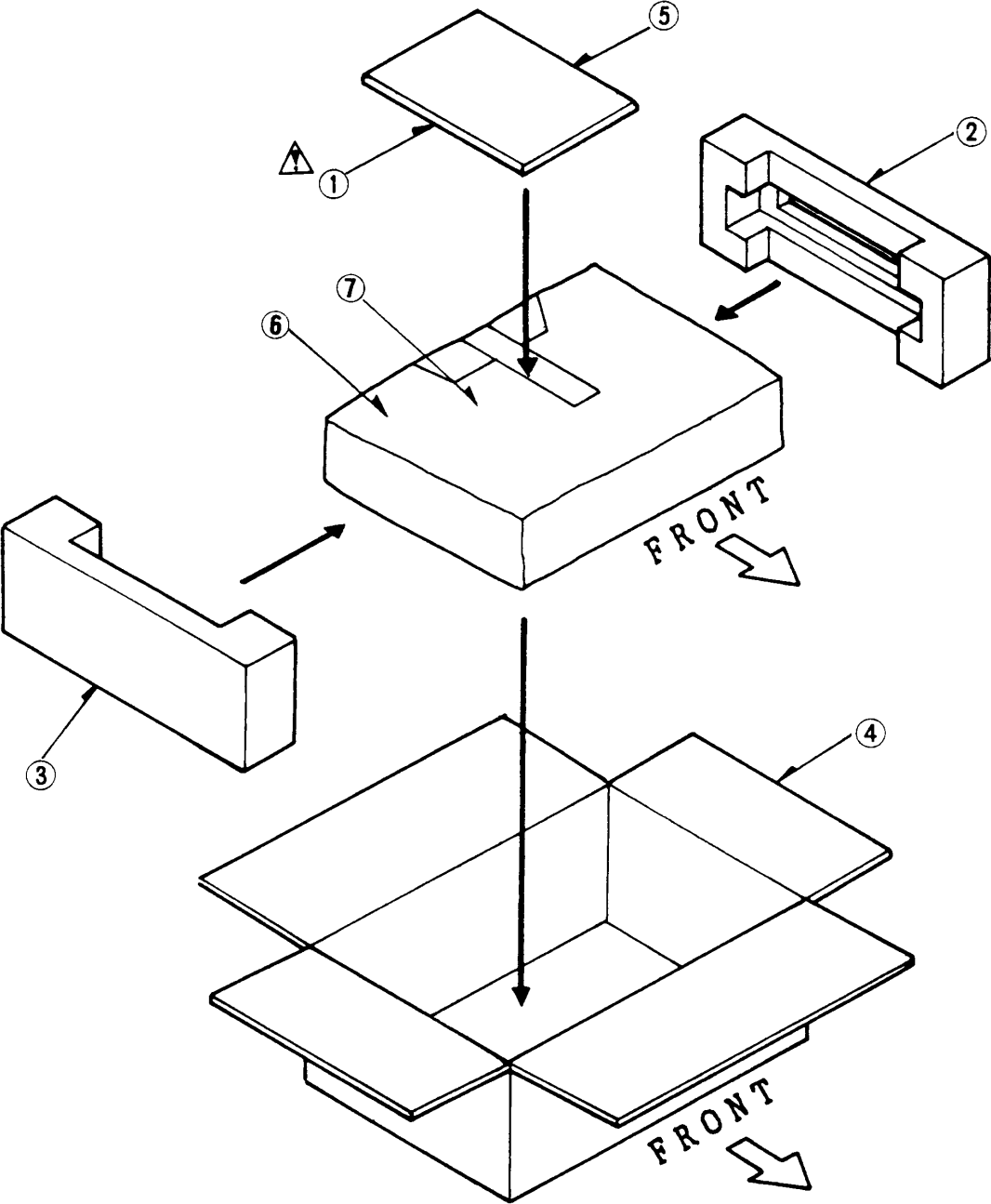
# CASSETTE COMPARTMENT ASSEMBLY





PACKING PARTS ASSEMBLY

Components identified with the mark  have the special characteristics for safety.  
When replacing any of these components, use only the same type.



PACKING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VQT8890	OPERATING INSTRUCTION	1						
2	VPN5232	CUSHION (R)	1						
3	VPN5231	CUSHION (L)	1						
4	VPG0G07	PACKING CASE	1						
5	VXF0170	EMARGENCY EJECT ASSY	1						
6	VPF0876	POLYETHYLENE BAG	1						
7	VPN5117	CUSHION	2						



**CABLE CONNECTION DIAGRAM**

Legend:  
 [Symbol] : DIRECT CONNECTOR  
 [Symbol] : FLEX CABLE  
 [Symbol] : CABLE HARNESS

The diagram illustrates the following components and their interconnections:

- V1 SPEAKER U:** Includes SP1, LCD1, LCD2, and V2 SPEAKER U (SP2).
- DISPLAY PANEL U:** Includes LCD CONT 1 (VEP80B22A), LCD CONT 2 (VEP80B23A), DISPLAY SW (VEP80B35A), DISPLAY CONTROL (VEP86291A), and DISPLAY (VEP86292A).
- JACK PANEL U:** Includes FAN M1, FAN M2, REAR JACK (VEP84339A/B), DC IN (VEP80B32A), and MIC AMP (VEP84338A).
- INTER CONNECT:** VEP80B28A, connecting various units.
- POWER U:** Includes POWER1 (VEP81194A), POWER2 (VEP81195A), and POWER3 (VEP81196A).
- DIGITAL1:** VEP83473A, including DV MICON (VEP88234U) and ENC VR1 (VEP8471A).
- A PRO&SDI:** VEP83475A, including SIN, SIN Through, and SOUT-1.
- SYNC GENE:** VEP83482A.
- AUDIO VIDEO:** VEP84336A, including A/V U and AUDIO VIDEO SUB (VEP84344A).
- DIGITAL2:** VEP83474A, including DV MICON (VEP88234U) and ENC VR2 (VEP83472A).
- AV IO:** VEP84337A, including V OUT1 (VEP83469A) and V OUT2 (VEP83470A).
- FRONT JACK:** VEP80B27A (P89701).
- KEY BOARD PANEL U:** Includes KEY BOARD, VR BOARD1 (VEP84340A), VR BOARD2 (VEP84341A), and POWER SW.
- MAIN CONTROL:** VEP86290A.
- YYP7592 FRONT PANEL U:** Includes EJECT SW1 (VEP80B26A) and EJECT SW2 (VEP80B41A).
- SERVO DRIVE:** VEP82228A.
- MECHA1/2:** VXY1538Z1 and VXY1538Z2.
- Other components:** RF AMP1 (VEP85182A), RF AMP2 (VEP85183A), and various connectors (P, V, DC, etc.).

The diagram uses a color-coded system for connectors: Blue for Video, Red for Audio, Green for Control, and Yellow for Power. It also includes a detailed list of cable types and their corresponding part numbers.



## CABLE CONNECTION

[illegible]



# ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP80B22A	LCD CONTROL 1 P.C. BOARD	1	(RTL)	■ E1	VEP80B22A	LCD CONTROL 1 P.C. BOARD	1	(RTL)
■ E2	VEP80B23A	LCD CONTROL 2 P.C. BOARD	1	(RTL)					
■ E3	VEP80B24A	TOP LED P.C. BOARD	1	(RTL)	D69201-05	MA165	DIODE	5	
■ E4	VEP80B25A	TOP SW P.C. BOARD	1	(RTL)	P69201	VJP1883T	CONNECTOR (MALE)	1	
■ E5	VEP80B26A	EJECT SW 1 P.C. BOARD	1	(RTL)	P69202	VJP1874T	CONNECTOR (MALE)	1	
■ E6	VEP80B41A	EJECT SW 2 P.C. BOARD	1	(RTL)	SW69201	VSS0162	SWITCH	1	
■ E7	VEP80B27A	FRONT JACK P.C. BOARD	1	(RTL)	SW69202	EVQ0SB04B	SWITCH	1	
■ E8	VEP80B28A	INTER CONNECTION P.C. B.	1	(RTL)	SW69203	VSS0162	SWITCH	1	
■ E9	VEP80B32A	DC IN P.C. BOARD	1	(RTL)	SW69204, 05	EVQ0SB04B	SWITCH	2	
■ E10	VEP80B35A	DISPLAY SW P.C. BOARD	1	(RTL)	VR69201	VRV0270	SWITCH	1	
■ E11	VEP81194A	POWER 1 P.C. BOARD	1	(RTL)			MISCELLANEOUS		
■ E12	VEP81195A	POWER 2 P.C. BOARD	1	(RTL)		VJF0882	CLAMPER	1	
■ E13	VEP81196A	POWER 3 P.C. BOARD	1	(RTL)					
■ E14	VEP82228A	SERVO DRIVE P.C. BOARD	1	(RTL)	■ E2	VEP80B23A	LCD CONTROL 2 P.C. BOARD	1	(RTL)
■ E15	VEP83469B	V OUT 1 P.C. BOARD	1	(RTL)					
■ E16	VEP83470B	V OUT 2 P.C. BOARD	1	(RTL)	D69301-05	MA165	DIODE	5	
■ E17	VEP83471A	ENCODER VR 1 P.C. BOARD	1	(RTL)	P69301	VJP1883T	CONNECTOR (MALE)	1	
■ E18	VEP83472A	ENCODER VR 2 P.C. BOARD	1	(RTL)	SW69301, 02	VSS0162	SWITCH	2	
■ E19	VEP83473B	DIGITAL 1 P.C. BOARD	1	(RTL)	SW69303-05	EVQ0SB04B	SWITCH	3	
■	VEP88234Z	DV UCOM P.C. BOARD	1	(RTL) FOR VEP88473B	VR69301, 02	VRV0270	SWITCH	2	
■ E20	VEP83474B	DIGITAL 2 P.C. BOARD	1	(RTL)			MISCELLANEOUS		
■	VEP88234Z	DV UCOM P.C. BOARD	1	(RTL) FOR VEP88474B		VJF0882	MINI CLAMPER	1	
■ E21	VEP83475A	AUDIO PROC&SD1 P.C. BOARD	1	(RTL)					
■ E22	VEP83482B	SYNC GENE P.C. BOARD	1	(RTL)	■ E3	VEP80B24A	TOP LED P.C. BOARD	1	(RTL)
■ E23	VEP84336B	AUDIO VIDEO P.C. BOARD	1	(RTL)					
■ E24	VEP84337A	AV I/O P.C. BOARD	1	(RTL)	D69501, 02	VLL0200	LAMP	2	
■ E25	VEP84338A	MIC AMP P.C. BOARD	1	(RTL)	P69501	VJP1243T	CONNECTOR (MALE) 3P	1	
■ E26	VEP84339A	REAR JACK P.C. BOARD	1	(RTL)	R69501, 02	ERDS2TJ121	C. RESISTOR 1/4W 120	2	
■ E27	VEP84340A	VR BOARD 1 P.C. BOARD	1	(RTL)			MISCELLANEOUS		
■ E28	VEP84341A	VR BOARD 2 P.C. BOARD	1	(RTL)		VMX1436	LED SPACER	2	
■ E29	VEP84344B	AD/VD SUB P.C. BOARD	1	(RTL)					
■ E30	VEP85182A	RF AMP 1 P.C. BOARD	1	(RTL)	■ E4	VEP80B25A	TOP SW P.C. BOARD	1	(RTL)
■ E31	VEP85183A	RF AMP 2 P.C. BOARD	1	(RTL)					
■ E32	VEP86290B	MAIN CONTROL P.C. BOARD	1	(RTL)	P69401	VJP1243T	CONNECTOR (MALE) 3P	1	
■ E33	VEP86291A	DISPLAY CONTROL P.C. BOARD	1	(RTL)	SW69401	VSM0168	SWITCH	1	
■ E34	VEP86292A	DISPLAY P.C. BOARD	1	(RTL)					
■ E35	VEP80856A	CARRIGE P.C. BOARD	1	(RTL)	■ E5	VEP80B26A	EJECT SW 1 P.C. BOARD	1	(RTL)
■ E36	VEP00Y68B	FLEX P.C. BOARD	1	(RTL)					



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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P69601	VEEOK67	EJECT	1			VEEOK59	DC IN CABLE	1	
SW69601	EVQQS404B	SWITCH	1						
■ E6	VEP80B41A	EJECT SW 2 P.C. BOARD	1	(RTL)	■ E10	VEP80B35A	DISPLAY SW P.C. BOARD	1	(RTL)
P69651	VEEOK67	EJECT	1		D69101-13	M1MA152K	DIODE	13	
SW69651	EVQQS404B	SWITCH	1		P69101	VJS3791B020	CONNECTOR (FEMALE)	1	
					SW69101	VSS0574	SWITCH	1	
					SW69102, 03	VSS0573	SWITCH	2	
					SW69104-09	VSS0574	SWITCH	6	
					SW69110, 11	VSS0573	SWITCH	2	
					SW69112	VSS0574	SWITCH	1	
■ E7	VEP80B27A	FRONT JACK P.C. BOARD	1	(RTL)	SW69113	VSS0573	SWITCH	1	
FL69701, 02	VLFO630	FILTER	2				MISCELLANEOUS		
J69701	VJJ0522	JACK	1			VMZ3009	INSULATION SHEET	1	
P69701	VJP1598T	CONNECTOR (MALE) 5P	1						
					■ E11	VEP81194A	POWER 1 P.C. BOARD	1	(RTL)
■ E8	VEP80B28A	INTER CONNECTION P.C. B.	1	(RTL)					
					C1303	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C101, 02	ECA1CHG682	E. CAPACITOR 16V 6800U	2		C1305	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C201, 02	ECA1CHG682	E. CAPACITOR 16V 6800U	2		C1306	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
					C1307	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
P101-05	VJS4313D080	CONNECTOR (FEMALE)	5		C1308	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
P106	VJS3791D016	CONNECTOR (FEMALE)	1		C1309	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
P107	VJS3791B030	CONNECTOR (FEMALE)	1		C1310	EEVHB1C220	E. CAPACITOR 16V 22U	1	
P108	VJP1247T	CONNECTOR (MALE)	1		C1315, 16	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
P109	VJS4064K080E	CONNECTOR (FEMALE)	1		C1317, 18	ECST1DY475Z	T. CAPACITOR CH 20V 4.7U	2	
P110	VJP3518D009	CONNECTOR (FEMALE)	1		C1319, 20	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
P111	VJS3406B022	CONNECTOR (FEMALE)	1		C1323, 24	VCEA1DAP680	E. CAPACITOR 20V 68U	2	
P112	VJP3950F008	CONNECTOR (MALE)	1		C1328, 29	VCEA1AAP221	E. CAPACITOR 10V 220U	2	
P113	VJP3518D009	CONNECTOR (FEMALE)	1		C1331	EEFCDOJ470R	E. CAPACITOR 6.3V 47U	1	
P114	VJP3518B002	CONNECTOR (MALE)	1		C1332	EEFCD1B220R	E. CAPACITOR 12.5V 22U	1	
P201-05	VJS4313D080	CONNECTOR (FEMALE)	5		C1333, 34	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
P206	VJS3791B050	CONNECTOR (FEMALE)	1		C1503	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
P207	VJS3791B030	CONNECTOR (FEMALE)	1		C1504	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
P208	VJP1247T	CONNECTOR (MALE)	1		C1505	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
P209	VJS4064K080E	CONNECTOR (FEMALE)	1		C1508	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
P210-12	VJS3826A040	CONNECTOR (FEMALE)	3		C1509	ECST1DY475Z	T. CAPACITOR CH 20V 4.7U	1	
P213	VJS3406B009	CONNECTOR (FEMALE)	1		C1510	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
P214	VJS3406D010	CONNECTOR (FEMALE)	1		C1512	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
P215	VJP3518B002	CONNECTOR (MALE)	1		C1515	VCEA1AAP221	E. CAPACITOR 10V 220U	1	
					C1516	EEFCDOJ470R	E. CAPACITOR 6.3V 47U	1	
R1-R7	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	7		C1517	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
					C1601	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
		MISCELLANEOUS			C1603	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
					C1605	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
	VJF1157	HARNESS	4		C1606	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
	VJF0309	HOLDER	1		C1607	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
					C1608	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
					C1615, 16	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
					C1617, 18	ECST1DY475Z	T. CAPACITOR CH 20V 4.7U	2	
					C1619, 20	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
					C1623, 24	VCEA1DAP680	E. CAPACITOR 20V 68U	2	
					C1629, 30	VCEA1AAP221	E. CAPACITOR 10V 220U	2	
					C1631, 32	EEFCD1B220R	E. CAPACITOR 12.5V 22U	2	
■ E9	VEP80B32A	DC IN P.C. BOARD	1	(RTL)	C1633, 34	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2	
					C1701	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
△ C101	VCK0260M222A	C. CAPACITOR 2200P	1		C1702	ECST1EX335Z	T. CAPACITOR CH 25V 3.3U	1	
					C1703	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
		MISCELLANEOUS			C1705	EEVHB1C220	E. CAPACITOR 16V 22U	1	
					C1706-11	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	6	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1713	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1715	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1717	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1719	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C1720	EEUFC1C331	E. CAPACITOR 16V 330U	1	
D1301, 02	MA142WK	DIODE	2	
D1303, 04	NSQ03A04	DIODE	2	
D1305, 06	MA8062-H	DIODE	2	
D1307-09	MA142WK	DIODE	3	
D1310	MA142WA	DIODE	1	
D1501	MA142WK	DIODE	1	
D1502	SFPB-64V	DIODE	1	
D1503	MA8062-H	DIODE	1	
D1504	MA142WK	DIODE	1	
D1506	MA142WK	DIODE	1	
D1601, 02	MA142WK	DIODE	2	
D1603, 04	NSQ03A04	DIODE	2	
D1605, 06	MA8062-H	DIODE	2	
D1607	MA142WK	DIODE	1	
D1610	MA142WA	DIODE	1	
D1702	MA8056-MH	DIODE	1	
D1703, 04	MA142WA	DIODE	2	
D1705	MA142WK	DIODE	1	
IC1301, 02	SB3032P	IC	2	
IC1303	TM3111	TRANSISTOR	1	
IC1304	TM3115	TRANSISTOR	1	
IC1305	TM3111	TRANSISTOR	1	
IC1306	TM3115	TRANSISTOR	1	
IC1501	TM3111	TRANSISTOR	1	
IC1502	TM3115	TRANSISTOR	1	
IC1503	SB3032P	IC	1	
IC1601, 02	SB3032P	IC	2	
IC1603	TM3111	TRANSISTOR	1	
IC1604	TM3115	TRANSISTOR	1	
IC1605	TM3111	TRANSISTOR	1	
IC1606	TM3115	TRANSISTOR	1	
JP3	VMP6469	EARTH SPRING	1	
JP4-P6	VMP6346	EARTH LUG	3	
L1301	VLQ0655M3R3	COIL 3.3U	1	
L1302, 03	VLP0353	COIL	2	
L1304	VLQ0864	COIL	1	
L1305	VLQ0859M100	COIL 10U	1	
L1306, 07	VLQ0826M3R3	COIL 3.3U	2	
L1308	VLQ0655M3R3	COIL 3.3U	1	
L1501	VLP0353	COIL	1	
L1502	VLQ0859M100	COIL 10U	1	
L1503	VLQ0655M3R3	COIL 3.3U	1	
L1504	VLQ0407100M	COIL 10UH	1	
L1601	VLQ0655M3R3	COIL 3.3U	1	
L1602, 03	VLP0353	COIL	2	
L1604	VLQ0859M100	COIL 10U	1	
L1605	VLQ0864	COIL	1	
L1606, 07	VLQ0826M3R3	COIL 3.3U	2	
L1608	VLQ0655M3R3	COIL 3.3U	1	
L1702	VLQ0441K220	COIL 22UH	1	
L1703	VLQ0409M100	COIL 10U	1	
P1701	VJS4355A034	CONNECTOR (FEMALE)	1	
P1702	VJP4329A030	CONNECTOR (MALE)	1	
P1703	VJP3926B018	CONNECTOR (MALE)	1	
P1704	VEEOL76	CABLE	1	
P1705	VJS4422A022	CONNECTOR (FEMALE)	1	
P1706	VJP1229T	CONNECTOR (MALE)	1	
Q1301	2SD1819A-R	TRANSISTOR	1	
Q1701	XN4401	TRANSISTOR-RESISTOR	1	
Q1702	2SD1819A-R	TRANSISTOR	1	
Q1703	XN4401	TRANSISTOR-RESISTOR	1	
Q1704	2SD1819A-R	TRANSISTOR	1	
QR1303, 04	UN5213	TRANSISTOR-RESISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR1702	UN5213	TRANSISTOR-RESISTOR	1	
R1301	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R1302	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R1303	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R1304	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1305	ERJ3RBD241	M. RESISTOR CH 1/16W 240	1	
R1306	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1307	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1308	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R1311	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R1312	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1313	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1319, 20	ERJ3RED514	M. RESISTOR CH 1/16W 510K	2	
R1321	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1325	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1327	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1329	VRE0202H15M	M. RESISTOR CH 100K	1	
R1330	VRE0202H22M	M. RESISTOR	1	
R1333, 34	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1335, 36	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1337, 38	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	
R1339, 40	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R1341, 42	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R1343, 44	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1501	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R1502	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1503	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R1504	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1507	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R1510	ERJ3RED514	M. RESISTOR CH 1/16W 510K	1	
R1513	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1515	VRE0202H22M	M. RESISTOR	1	
R1517	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1518	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1520	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1601	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R1602	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1603	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R1604	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1605	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R1606	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R1607, 08	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2	
R1619, 20	ERJ3RED514	M. RESISTOR CH 1/16W 510K	2	
R1625	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1627	ERJ6GEYJ3R3	M. RESISTOR CH 1/10W 3.3	1	
R1629, 30	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	
R1631, 32	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1633	VRE0202H22M	M. RESISTOR	1	
R1634	VRE0202H15M	M. RESISTOR CH 100K	1	
R1635, 36	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	
R1637, 38	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1641, 42	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R1645, 46	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1701	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	1	
R1702	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1704	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1705	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1706	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1707	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	1	
R1708	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1710	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R1711	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1713	ERJ6RBD513	M. RESISTOR CH 1/10W 51K	1	
R1714-19	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R1720	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1721	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1725, 26	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	2	
R1727, 28	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	2	
TG1701	EYF6CU	TEST POINT	1	
TP1301, 02	EYF6CU	TEST POINT	2	
TP1501	EYF6CU	TEST POINT	1	
TP1601, 02	EYF6CU	TEST POINT	2	



Components identified with the mark  have the special characteristics for safety.  
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TP1701-06	EYF6CU	TEST POINT	6		IC1001, 02	NJM2903M	IC	2	
		MISCELLANEOUS			IC1101, 02	BA9743AFV	IC	2	
	XTV3+8F	SCREW	6		JP1-P3	VMP6346	EARTH LUG	3	
					L1001-06	VLP0364	CHIP INDUCTOR	6	
					L1011	VLP0364	CHIP INDUCTOR	1	
					L1012	VLQ0319K100	COIL 10UH	1	
					L1101-03	VLP0353	COIL	3	
					L1104	VLQ0441K4R7	COIL 4.7UH	1	
					L1105	VLQ0655M3R3	COIL 3.3U	1	
					L1106	VLP0364	CHIP INDUCTOR	1	
					L1107	VLQ0859M221	COIL 220U	1	
					L1108, 09	VLQ0859M470	COIL 47U	2	
					L1110	VLP0364	CHIP INDUCTOR	1	
					L1111	VLQ0441K4R7	COIL 4.7UH	1	
					L1112	VLQ0441K1R0	COIL 1.0UH	1	
■ E12	VEP81195A	POWER 2 P.C. BOARD	1	(RTL)	P1001	VJP4396B002	CONNECTOR (MALE)	1	
					P1002	VJP2856B034	CONNECTOR (MALE)	1	
					P1003	VJP4399L011	CONNECTOR (MALE)	1	
C1001	EEVHB1C100	E. CAPACITOR 16V 10U	1		Q1001	XN4601	TRANSISTOR-RESISTOR	1	
C1002	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		Q1002	2SK2897-01R	TRANSISTOR	1	
C1003	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		Q1004	2SK2897-01R	TRANSISTOR	1	
C1004, 05	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2		Q1006	2SK2897-01R	TRANSISTOR	1	
C1007	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		Q1010	2SD1820A-R	TRANSISTOR	1	
C1008	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	1		Q1011	2SB1219A-R	TRANSISTOR	1	
C1010	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1		Q1012	2SD1819A-R	TRANSISTOR	1	
C1011, 12	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	2		Q1013-15	2SB1218A-R	TRANSISTOR	3	
C1015	EEVHB1V100	E. CAPACITOR 35V 10U	1		Q1101-03	2SD1819A-R	TRANSISTOR	3	
C1104-06	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	3		Q1104	2SD1820A-R	TRANSISTOR	1	
C1107	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1		Q1105	2SB1219A-R	TRANSISTOR	1	
C1109	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1		Q1106	2SD1820A-R	TRANSISTOR	1	
C1110	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1		Q1107	2SB1219A-R	TRANSISTOR	1	
C1112	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		Q1108	2SD1819A-R	TRANSISTOR	1	
C1113	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		Q1109	XN4401	TRANSISTOR-RESISTOR	1	
C1115	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1		Q1110	2SD1820A-R	TRANSISTOR	1	
C1116, 17	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	2		Q1111	2SB1219A-R	TRANSISTOR	1	
C1118	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1		Q1112	XN4401	TRANSISTOR-RESISTOR	1	
C1119-21	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	3		Q1113, 14	2SJ489-4061	FET	2	
C1123	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		Q1115	2SJ279S	TRANSISTOR	1	
C1124	VCK0303K225	C. CAPACITOR 2.2U	1		Q1117	2SK1748-Z	TRANSISTOR	1	
C1127	VCK0303K225	C. CAPACITOR 2.2U	1		Q1118	2SD1819A-R	TRANSISTOR	1	
C1129	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		Q1120	UN5113	TRANSISTOR-RESISTOR	1	
C1130, 31	VCEA1DAP220	E. CAPACITOR 20V 22U	2		Q1121	2SB1218A-R	TRANSISTOR	1	
C1134, 35	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2		QR1001-03	UN5213	TRANSISTOR-RESISTOR	3	
C1139	VCEA1DAP220	E. CAPACITOR 20V 22U	1		QR1004	UN5113	TRANSISTOR-RESISTOR	1	
C1141	VCEA1DAP220	E. CAPACITOR 20V 22U	1		QR1005	UN5111	TRANSISTOR-RESISTOR	1	
C1144	EEAFC1C560	E. CAPACITOR 16V 56U	1		QR1006-09	UN5211	TRANSISTOR-RESISTOR	4	
C1145	VCEA1DAP220	E. CAPACITOR 20V 22U	1		QR1010	UN5213	TRANSISTOR-RESISTOR	1	
C1146	EEAFC1C560	E. CAPACITOR 16V 56U	1		QR1011	UN5113	TRANSISTOR-RESISTOR	1	
C1148-50	VCEA1DAP220	E. CAPACITOR 20V 22U	3		QR1012	UN5213	TRANSISTOR-RESISTOR	1	
C1152	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1		QR1013	UN5112	TRANSISTOR-RESISTOR	1	
					QR1014-16	UN5213	TRANSISTOR-RESISTOR	3	
△ CB1001-03	VSQ1171	CIRCUIT PROTECTOR	3		QR1101-03	UN5211	TRANSISTOR-RESISTOR	3	
					QR1104	UN5113	TRANSISTOR-RESISTOR	1	
D1005	MA142WK	DIODE	1		QR1106, 07	UN5113	TRANSISTOR-RESISTOR	2	
D1006	MA142WA	DIODE	1		R1001	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
D1007	MA8027-H	DIODE	1		R1002	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
D1008	MA3100-M	DIODE	1		R1003	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
D1009, 10	MA142WK	DIODE	2		R1004, 05	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
D1011	MA3200-M	DIODE	1		R1007	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
D1012	MA8056-MH	DIODE	1		R1008	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
D1013	MA8100-M	DIODE	1		R1009	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
D1015-17	Z6056U	DIODE	3		R1010	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
D1018	MA142WK	DIODE	1		R1011	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
D1020	MA8062-MH	DIODE	1		R1012-15	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
D1022	MA8180-M	DIODE	1		R1016	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
D1023	MA3240-H	DIODE	1		R1017	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
D1030	MA142WA	DIODE	1		R1018	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
D1034	MA157A	DIODE	1		R1019	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
D1036, 37	MA142WA	DIODE	2		R1020, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
D1039, 40	MA157A	DIODE	2						
D1101-05	MA142WK	DIODE	5						
D1106	DE5SC4M-4061	DIODE	1						
D1107	SFPB-76V	DIODE	1						
D1108	SFPB-64V	DIODE	1						
D1109	MA142WK	DIODE	1						
D1111	MA8180-M	DIODE	1						
D1114-16	MA142WK	DIODE	3						
D1117	MA8120-M	DIODE	1						
D1118	MA8180-M	DIODE	1						







Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR1202, 03	UN5211	TRANSISTOR-RESISTOR	2	
QR1204-06	UN5113	TRANSISTOR-RESISTOR	3	
QR1207	UN5211	TRANSISTOR-RESISTOR	1	
QR1208	UN5113	TRANSISTOR-RESISTOR	1	
R1204	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1206-08	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R1209, 10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1211	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R1212	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R1213	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R1214	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R1215-18	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	4	
R1219	ERJ3RED124	M. RESISTOR CH 1/16W 120K	1	
R1220	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1221	ERJ3GEYJ162	M. RESISTOR CH 1/16W 1.6K	1	
R1222	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R1223	ERJ3RED124	M. RESISTOR CH 1/16W 120K	1	
R1224	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1225	ERJ3GEYJ162	M. RESISTOR CH 1/16W 1.6K	1	
R1226	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R1227	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1228	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1229	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R1230	ERJ3RED184	M. RESISTOR CH 1/16W 180K	1	
R1231	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R1232, 33	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R1234, 35	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R1236-38	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R1241, 42	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R1243-45	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	3	
R1246	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1247	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1249	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1251	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1254-58	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	5	
R1260, 61	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R1263-65	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R1266, 67	ERJL1WKJ47M	M. RESISTOR CH 1W	2	
R1268	ERJ1WRSJR12	M. RESISTOR CH 1W 0.12	1	
R1269	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1270	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R1271	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1272	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R1273	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R1274	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R1275-77	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	3	
R1278-80	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R1281-83	ERJ3GEYJ47R	M. RESISTOR CH 1/16W 4.7	3	
R1284-89	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	
		MISCELLANEOUS		
	XYN3-K8	SCREW	3	
■ E14	VEP82228A	SERVO DRIVE P. C. BOARD	1 (RTL)	
C22101	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22102	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C22103, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22105	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C22106	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22107	VCK0152	C. CAPACITOR	1	
C22108, 09	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	2	
C22110	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C22111, 12	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22113	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C22114, 15	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
C22116	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C22117, 18	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
C22119	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22120	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C22121-23	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C22124	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C22125	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22126	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C22127-30	EEVHB1C220	E. CAPACITOR 16V 22U	4	
C22131	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22132	ECUX1H123KBV	C. CAPACITOR CH 50V 0.012U	1	
C22133-35	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C22136	ECUX1C224ZV	C. CAPACITOR CH 16V 0.22U	1	
C22137-41	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C22201	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C22205-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C22212-20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	9	
C22221, 22	EEVHB1A330	E. CAPACITOR 10V 33U	2	
C22223	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22224	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C22225, 26	EEVHB1A330	E. CAPACITOR 10V 33U	2	
C22227	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C22228	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C22229, 30	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22231, 32	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C22233, 34	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	2	
C22235	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C22236, 37	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22239	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C22240, 41	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22243, 44	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22301, 02	EEVHB1A330	E. CAPACITOR 10V 33U	2	
C22303-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C22311-15	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	5	
C22316	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22317	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C22318	ECQ81H333JF	P. CAPACITOR 50V 0.033U	1	
C22319-22	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C22323	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22324	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C22325	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22326	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C22327-31	VCE0180	E. CAPACITOR	5	
C22401	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C22402-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C22406-09	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	4	
C22410-13	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	4	
C22414, 15	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22416	EEVHB1H3R3	E. CAPACITOR 50V 3.3U	1	
C22417, 18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22419-22	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	4	
C22423-25	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C22426	VCK0152	C. CAPACITOR	1	
C22427-32	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C22434, 35	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C22436	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C22501	VCK0152	C. CAPACITOR	1	
C22502	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C22503, 04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C22505	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22506	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	1	
C22507	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22508	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	1	
C22509-14	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C22515	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C22516	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C22517	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C22518	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C22522, 23	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C22525, 26	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	2	
C22527, 28	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C22529	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C22530	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	1	
C22531	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C22532	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	1	
C22535, 36	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C22537, 38	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C22539, 40	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	2	
C22541, 42	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C22543, 44	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
C22545, 46	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22547, 48	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
C22549-54	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	6	
C22555-60	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	6	
C22601	VCK0152	C. CAPACITOR	1	
C22602	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22603	VCE0180	E. CAPACITOR	1	
C22604	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C22605	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22606	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C22607, 08	VCE0180	E. CAPACITOR	2	
C22609	VCC0037F432	C. CAPACITOR 432P	1	
C22610	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C22611, 12	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22613	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C22614	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22617, 18	VCE0180	E. CAPACITOR	2	
C22619, 20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C22621	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C22702	ECA1EEN101	E. CAPACITOR 25V 100U	1	
C22801-03	EEVHB1C470	E. CAPACITOR 16V 47U	3	
C22804	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C22805	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22806	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C22807	EEVHB1E4R7	E. CAPACITOR 25V 4.7U	1	
C22808, 09	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
C22905	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C22908	VCK0152	C. CAPACITOR	1	
C22911	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C23201	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
C23202, 03	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	2	
C23204-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C23208, 09	ECUX1H153KBV	C. CAPACITOR CH 50V 0.015U	2	
C23210	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C23211	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C23212	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C23216	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C23217	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C23219	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C23220	EEVHB1C100	E. CAPACITOR 16V 10U	1	
D22101-04	MA147	DIODE	4	
D22201	MA143	DIODE	1	
D22202, 03	MA8039-L	DIODE	2	
D22204, 05	MA143	DIODE	2	
D22206, 07	MA142K	DIODE	2	
D22208, 09	MA8056-MH	DIODE	2	
D22210	MA143	DIODE	1	
D22301, 02	MA736	DIODE	2	
D22303, 04	MA728	DIODE	2	
D22401-04	MA143	DIODE	4	
D22405, 06	MA736	DIODE	2	
D22501, 02	MA8047-H	DIODE	2	
D22503-14	MA738	DIODE	12	
D22601, 02	MA728	DIODE	2	
D22603, 04	MA736	DIODE	2	
D22605	MA8039-L	DIODE	1	
D22701	MA142WA	DIODE	1	
D22702-05	MA738	DIODE	4	
D22706-08	MA142WA	DIODE	3	
D22709-20	MA738	DIODE	12	
D22721-24	NSQ03A04	DIODE	4	
D22801	MA738	DIODE	1	
D22802	MA8056-MH	DIODE	1	
D22803	MA8051-M	DIODE	1	
D22804	MA8056-MH	DIODE	1	
D22805	MA8100-M	DIODE	1	
D22806	MA8068-M	DIODE	1	
D22807	MA3100-L	DIODE	1	
D22808	MA3075-M	DIODE	1	
D22809	MA142WK	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D23201-04	MA8047-H	DIODE	4	
D23205	MA8051-H	DIODE	1	
D23206	21D004	DIODE	1	
D23207	MA8030-H	DIODE	1	
D23208	MA8051-H	DIODE	1	
D23301	MA142WA	DIODE	1	
D23302-05	MA738	DIODE	4	
D23306	NSQ03A04	DIODE	1	
IC22101-03	TA75W558FU	IC	3	
IC22104	UPC4741G2	IC	1	
IC22105	TA75W558FU	IC	1	
IC22106	UPC4741G2	IC	1	
IC22107, 08	TA75W393FU	IC	2	
IC22109	MC14538BF	IC	1	
IC22201	TC7W04F	IC	1	
IC22202	TC7W74FU	IC	1	
IC22203	AD633JR	IC	1	
IC22205	NJM4580ED	IC	1	
IC22206	TC4052BF	IC	1	
IC22207	TA75W558FU	IC	1	
IC22208	TA75W01FU	IC	1	
IC22210	TA75W558FU	IC	1	
IC22211, 12	OP177GS	IC	2	
IC22301, 02	AN3890FBS	IC	2	
IC22303	TA75W393FU	IC	1	
IC22401	TA75W558FU	IC	1	
IC22402	TA75W393FU	IC	1	
IC22403	TA75W558FU	IC	1	
IC22404	TA75W393FU	IC	1	
IC22405, 06	UPC4558G2	IC	2	
IC22407	TA75W01FU	IC	1	
IC22501	XC62DN5002P	IC	1	
IC22502, 03	AN3834S	IC	2	
IC22504	TA75W558FU	IC	1	
IC22505	TA75W01FU	IC	1	
IC22506	TA75W393FU	IC	1	
IC22601	XC62AP5002P	IC	1	
IC22602	TL1451CNS	IC	1	
IC22603	NJM4580ED	IC	1	
IC22801, 02	M54649L	IC	2	
IC22901	XC62AP5002P	IC	1	
IC23202, 03	NJM2904M	IC	2	
IC23204, 05	TA75W558FU	IC	2	
IC23207	LTC16601GN	IC	1	
L22201, 02	VLQ0319K101	COIL 100UH	2	
L22301, 02	VLQ0650M151	COIL 150UH	2	
L22303	VLQ0651M120	COIL 12UH	1	
L22401	VLQ0319K101	COIL 100UH	1	
L22601	VLQ0651M120	COIL 12UH	1	
L22602, 03	VLQ0650M151	COIL 150UH	2	
L22801, 02	VLQ0319K101	COIL 100UH	2	
L22901, 02	VLQ0319K100	COIL 10UH	2	
P22901	VJS3826C030	CONNECTOR (FEMALE)	1	
P22902	VJP3949C070H	CONNECTOR (MALE)	1	
P23103	VJP1234T	CONNECTOR (MALE) 7P	1	
P23111	VJP3172D002	CONNECTOR (MALE)	1	
P23112	VJP3172D005	CONNECTOR (MALE)	1	
P23113	VJP3172D002	CONNECTOR (MALE)	1	
P23114	VJP3172D003	CONNECTOR (MALE)	1	
P23115	VJP3518B002	CONNECTOR (MALE)	1	
P23116	VJP3518B003	CONNECTOR (MALE)	1	
P23117	VJS3801B010	CONNECTOR (FEMALE)	1	
P23118	VJP3518B002	CONNECTOR (MALE)	1	
P23119	VJP3172D002	CONNECTOR (MALE)	1	
P23120	VJP3518B003	CONNECTOR (MALE)	1	
P23121	VJP3518B002	CONNECTOR (MALE)	1	
P23122	VJP3172D004	CONNECTOR (MALE)	1	
P23124	VJP3518B002	CONNECTOR (MALE)	1	
P23125	VJP1230T	CONNECTOR (MALE) 3P	1	
P23126	VJP1236T	CONNECTOR (MALE) 9P	1	
P23130	VJP3172D003	CONNECTOR (MALE)	1	
P23132	VJP3172D004	CONNECTOR (MALE)	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P23133	VJS3406B015	CONNECTOR (FEMALE)	1	
P23134, 35	VJS3813C017	CONNECTOR (FEMALE)	2	
P23136	VJS3406B019	CONNECTOR (FEMALE)	1	
P23137	VJP3125B002	CONNECTOR (MALE)	1	
P23138	VJP3172D002	CONNECTOR (MALE)	1	
Q22101	2SD601A-R	TRANSISTOR	1	
Q22201	2SD1820A-R	TRANSISTOR	1	
Q22202, 03	2SB1219A-R	TRANSISTOR	2	
Q22204, 05	2SD1820A-R	TRANSISTOR	2	
Q22206, 07	2SB1219A-R	TRANSISTOR	2	
Q22208	2SD1820A-R	TRANSISTOR	1	
Q22301	2SB1073-R	TRANSISTOR	1	
Q22302	2SD1119-R	TRANSISTOR	1	
Q22303	2SB1073-R	TRANSISTOR	1	
Q22304	2SD1119-R	TRANSISTOR	1	
Q22305	2SB1073-R	TRANSISTOR	1	
Q22306	2SD1119-R	TRANSISTOR	1	
Q22307	2SB1073-R	TRANSISTOR	1	
Q22308	2SD1119-R	TRANSISTOR	1	
Q22309	2SB1073-R	TRANSISTOR	1	
Q22310	2SD1119-R	TRANSISTOR	1	
Q22311	2SB1073-R	TRANSISTOR	1	
Q22312	2SD1119-R	TRANSISTOR	1	
Q22313-16	2SD1820A-R	TRANSISTOR	4	
Q22317, 18	2SB1073-R	TRANSISTOR	2	
Q22401	2SB1219A-R	TRANSISTOR	1	
Q22601, 02	2SB1073-R	TRANSISTOR	2	
Q22701	2SD1819A-R	TRANSISTOR	1	
Q22702	2SB1219A-R	TRANSISTOR	1	
Q22703	2SD1819A-R	TRANSISTOR	1	
Q22704	2SB1073-R	TRANSISTOR	1	
Q22705	2SD1624-S	TRANSISTOR	1	
Q22706	2SD1819A-R	TRANSISTOR	1	
Q22707	2SB1219A-R	TRANSISTOR	1	
Q22708	2SB1073-R	TRANSISTOR	1	
Q22709	2SD1624-S	TRANSISTOR	1	
Q22710	2SB1219A-R	TRANSISTOR	1	
Q22711	2SD1819A-R	TRANSISTOR	1	
Q22712	2SB1219A-R	TRANSISTOR	1	
Q22713, 14	2SD1819A-R	TRANSISTOR	2	
Q22715	2SB1219A-R	TRANSISTOR	1	
Q22716	2SB1073-R	TRANSISTOR	1	
Q22717	2SD1624-S	TRANSISTOR	1	
Q22718	2SB1073-R	TRANSISTOR	1	
Q22719	2SD1624-S	TRANSISTOR	1	
Q22720	2SB1073-R	TRANSISTOR	1	
Q22721	2SD1624-S	TRANSISTOR	1	
Q22722	2SD1819A-R	TRANSISTOR	1	
Q22723	2SB1219A-R	TRANSISTOR	1	
Q22724	2SD1819A-R	TRANSISTOR	1	
Q22725	2SB1219A-R	TRANSISTOR	1	
Q22726	2SD1819A-R	TRANSISTOR	1	
Q22727	2SB1219A-R	TRANSISTOR	1	
Q22728	2SB1073-R	TRANSISTOR	1	
Q22729	2SD1624-S	TRANSISTOR	1	
Q22730	2SB1073-R	TRANSISTOR	1	
Q22731	2SD1624-S	TRANSISTOR	1	
Q22732	2SB1073-R	TRANSISTOR	1	
Q22733	2SD1624-S	TRANSISTOR	1	
Q22801	2SB1073-R	TRANSISTOR	1	
Q22802	2SD1624-S	TRANSISTOR	1	
Q22803	2SD1819A-R	TRANSISTOR	1	
Q23201	2SB936A-Q	TRANSISTOR	1	
Q23202	2SD601A-R	TRANSISTOR	1	
Q23203	2SB936A-Q	TRANSISTOR	1	
Q23204	2SD601A-R	TRANSISTOR	1	
Q23301	2SD1819A-R	TRANSISTOR	1	
Q23302	2SB1219A-R	TRANSISTOR	1	
Q23303	2SB1073-R	TRANSISTOR	1	
Q23304	2SD1624-S	TRANSISTOR	1	
Q23305	2SD1819A-R	TRANSISTOR	1	
Q23306	2SB1219A-R	TRANSISTOR	1	
Q23307	2SB1073-R	TRANSISTOR	1	
Q23308	2SD1624-S	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR22101	UN5213	TRANSISTOR-RESISTOR	1	
QR22102	UN5113	TRANSISTOR-RESISTOR	1	
QR22103	UN5213	TRANSISTOR-RESISTOR	1	
QR22104	UN5113	TRANSISTOR-RESISTOR	1	
QR22105	UN5213	TRANSISTOR-RESISTOR	1	
QR22201, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR22301	UN5213	TRANSISTOR-RESISTOR	1	
QR22302	UN5217	TRANSISTOR-RESISTOR	1	
QR22303	UN5113	TRANSISTOR-RESISTOR	1	
QR22305	UN5211	TRANSISTOR-RESISTOR	1	
QR22307, 08	UN5213	TRANSISTOR-RESISTOR	2	
QR22501-04	UN5213	TRANSISTOR-RESISTOR	4	
QR22701, 02	UN5214	TRANSISTOR-RESISTOR	2	
QR22703, 04	UN5114	TRANSISTOR-RESISTOR	2	
QR22705-10	UN5214	TRANSISTOR-RESISTOR	6	
QR22711-16	UN5114	TRANSISTOR-RESISTOR	6	
QR22801	UN5213	TRANSISTOR-RESISTOR	1	
QR22802, 03	UN5211	TRANSISTOR-RESISTOR	2	
QR22804	UN5214	TRANSISTOR-RESISTOR	1	
QR22805, 06	UN5213	TRANSISTOR-RESISTOR	2	
QR22807	UN5114	TRANSISTOR-RESISTOR	1	
QR22808	UN5214	TRANSISTOR-RESISTOR	1	
QR23201	UN5214	TRANSISTOR-RESISTOR	1	
QR23301, 02	UN5214	TRANSISTOR-RESISTOR	2	
QR23303, 04	UN5114	TRANSISTOR-RESISTOR	2	
R22101	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R22102, 03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22104, 05	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	2	
R22106, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22108, 09	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
R22110, 11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22112	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R22113, 14	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R22115	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R22116	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R22117, 18	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R22119	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22120	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R22121	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R22122	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R22123	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R22124	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22125	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R22126-31	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	6	
R22132-35	ERJ3RED334	M. RESISTOR CH 1/16W 330K	4	
R22136	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22137	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R22138	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R22139	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22140, 41	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	2	
R22144	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22145, 46	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	2	
R22147	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1	
R22148	ERJ3GEYJ274	M. RESISTOR CH 1/16W 270K	1	
R22149, 50	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R22151, 52	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2	
R22153, 54	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	2	
R22156	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R22158, 59	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R22160	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R22201	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22202	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22203	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22204	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R22205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22206-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R22209	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R22210, 11	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R22212	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22213	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R22214-16	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R22217	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R22218	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R22219, 20	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	2	
R22221	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R22222	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R22223	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22224	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R22225	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R22226	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R22227	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R22228-30	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R22231	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R22232	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22233-35	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R22236, 37	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R22238	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R22239	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R22240	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R22241	ERJ3GEYJ274	M. RESISTOR CH 1/16W 270K	1	
R22242	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R22243	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R22244	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22245	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R22246	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R22247	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22248	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R22249	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R22250, 51	ERJ3RBD823	M. RESISTOR CH 1/16W 82K	2	
R22252, 53	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R22254	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22257	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22258	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22259	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R22260, 61	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	2	
R22262, 63	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22265, 66	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R22302	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R22303-06	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	4	
R22307, 08	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R22309	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R22311	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R22312	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22313, 14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R22315	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22316-21	ERJ8GEYJ180	M. RESISTOR CH 1/8W 1	6	
R22322	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R22323	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R22324	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R22325	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R22326, 27	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22329, 30	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	2	
R22331, 32	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22333, 34	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22335, 36	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	2	
R22337, 38	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22339, 40	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R22341, 42	ERJ8GEYJ681	M. RESISTOR CH 1/8W 680	2	
R22343, 44	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22403, 04	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R22407-10	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R22411	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22412	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R22413	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R22414	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	1	
R22415-18	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R22419-22	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	4	
R22423	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R22424-27	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R22428	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R22429	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R22430-33	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	4	
R22435	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22436	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R22437-39	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R22440	ERJ3RBD432	M. RESISTOR CH 1/16W 4.3K	1	
R22443	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R22444	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R22445, 46	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R22447	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R22448	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R22450-54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R22501	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R22503	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R22504	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22505	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R22506, 07	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R22509	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R22510	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22511, 12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R22513, 14	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R22515-18	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	4	
R22519	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R22520	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22521, 22	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	2	
R22523, 24	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	
R22525, 26	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	2	
R22527-30	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	4	
R22531-36	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	6	
R22537, 38	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R22539, 40	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	2	
R22541, 42	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	2	
R22543, 44	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R22545	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22547	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22601, 02	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	2	
R22603, 04	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	2	
R22605, 06	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R22607-10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R22611, 12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R22614	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R22615	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R22616	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R22617, 18	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	2	
R22619, 20	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R22621, 22	ERJ8GEYJ681	M. RESISTOR CH 1/8W 680	2	
R22625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R22626	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R22627, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R22701	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22702	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R22703, 04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22705, 06	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R22707, 08	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R22709-12	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	4	
R22713, 14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22715, 16	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R22717, 18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R22719-22	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	4	
R22723, 24	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22725-30	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	6	
R22731-36	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	
R22737-48	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	12	
R22749-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	6	
R22755-60	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	6	
R22761-66	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	
R22767-78	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	12	
R22779	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	3	
R22780-85	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	6	
R22786-96	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	11	
R22802	ERJ8GEYJ102	M. RESISTOR CH 1/8W 1K	1	
R22803	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R22804	ERJ8GEYJ102	M. RESISTOR CH 1/8W 1K	1	
R22805	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	1	
R22807-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R22812, 13	ERJ8GEYJ222	M. RESISTOR CH 1/8W 2.2K	2	
R22814, 15	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	2	
R22816, 17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R22818	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1	
R22819	ERJ8GEYJ300	M. RESISTOR CH 1/8W 30	1	
R22822	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1	
R22823	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R22824	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R22825	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R23101	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R23201, 02	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R23203, 04	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R23205-08	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	4	
R23209-12	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	4	
R23213-16	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R23217	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R23218, 19	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R23220	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R23223, 24	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	2	
R23225	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R23226	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R23227	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R23230	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R23235	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R23236	ERJ3GEYJ623	M. RESISTOR CH 1/16W 62K	1	
R23237	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R23238	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R23239	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R23241	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1	
R23243, 44	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R23245	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R23246-51	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R23301	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R23302, 03	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R23304, 05	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R23306-09	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	4	
R23310, 11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R23312, 13	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	
R23314, 15	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R23316-19	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	4	
R23320, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R23322-24	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	3	
TG22303, 04	EYF6CU	TEST POINT	2	
TG22505, 06	EYF6CU	TEST POINT	2	
TG23201	EYF6CU	TEST POINT	1	
TP22101-04	EYF6CU	TEST POINT	4	
TP22202, 03	EYF6CU	TEST POINT	2	
TP22207	EYF6CU	TEST POINT	1	
TP22210-14	EYF6CU	TEST POINT	5	
TP22301, 02	EYF6CU	TEST POINT	2	
TP22305, 06	EYF6CU	TEST POINT	2	
TP22401-08	EYF6CU	TEST POINT	8	
TP22501-04	EYF6CU	TEST POINT	4	
TP22507, 08	EYF6CU	TEST POINT	2	
TP23201-04	EYF6CU	TEST POINT	4	
		MISCELLANEOUS		
	VJF1310	CONNECTOR HOLDER	1	
■ E15	VEP83469B	V OUT 1 P.C. BOARD	1 (RTL)	
C1201	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C1203, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1207, 08	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C1209	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C1210-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C1213	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1214	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C1215	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C1218	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1219, 20	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	2	
C1221-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C1224	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C1225	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1226	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1228	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1229	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1230	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
C1231	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C1232	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1233	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C1234	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C1235	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1236	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C1237	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1238, 39	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1240	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C1241	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1243, 44	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C1245, 46	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1301	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1303	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1304	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C1306, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1310	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1312	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1314	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1316	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1318	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1319	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1320	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1401, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1403	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C1404, 05	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C1406, 07	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	2	
C1408	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C1409, 10	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	2	
C1411, 12	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C1413	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1416-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C1420, 21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C1422, 23	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2	
C1424, 25	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C1426, 27	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C1430-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C1501	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C1503	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C1504	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C1505	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C1506	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C1507	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C1508	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1509	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C1510	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C1511, 12	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C1513	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C1514	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C1515-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C1523, 24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C1526	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C1527	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
D1202	MA142WK	DIODE	1	
D1502	MA28WA	DIODE	1	
FL1201	VLF1354	FILTER	1	
FL1401, 02	VLF1476	FILTER	2	
IC1201	TC7S08FU	IC	1	
IC1202	NJM082BV	IC	1	
IC1203	TC7S00FU	IC	1	
IC1204	AD828AR	IC	1	
IC1205	NJM78L09UA	IC	1	
IC1206	AN77L05M	IC	1	
IC1207	XC62DN5002P	IC	1	
IC1301	AD828AR	IC	1	
IC1302	MC14053BDT	IC	1	
IC1303	NJM2534V	IC	1	
IC1401	TC7S08FU	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1402	NJM082BV	IC	1	
IC1403	AD828AR	IC	1	
IC1404	NJM082BV	IC	1	
IC1501	TC7S00FU	IC	1	
IC1502, 03	NJM2534V	IC	2	
IC1504	AD828AR	IC	1	
L1201, 02	VLQ0319K101	COIL	100UH	2
L1206	VLQ0426J2R2	COIL	2. 2UH	1
L1207	VLQ0426J680	COIL	68UH	1
L1401, 02	VLQ0319K101	COIL	100UH	2
L1403, 04	VLQ0426J6R8	COIL	6. 8UH	2
L1501	VLQ0426J180	COIL	18UH	1
L1502	VLQ0426J220	COIL	22UH	1
L1503	VLQ0426J180	COIL	18UH	1
L1504	VLQ0426J220	COIL	22UH	1
L1505, 06	VLQ0319K101	COIL	100UH	2
P1102	VJP3125B012	CONNECTOR (MALE)	1	
P1103	VJS3791D040	CONNECTER (FEMALE)	1	
P1104	VJP3125B004	CONNECTOR (MALE)	4P	1
Q1201-03	2SD1819A-R	TRANSISTOR		3
Q1204	2SK198-R	TRANSISTOR		1
Q1205	2SC3930-B	TRANSISTOR		1
Q1206	2SB1218A-R	TRANSISTOR		1
Q1207	2SA1532-B	TRANSISTOR		1
Q1208	2SB1218A-R	TRANSISTOR		1
Q1209	2SC3930-B	TRANSISTOR		1
Q1210	2SD1819A-R	TRANSISTOR		1
Q1211-13	2SB1218A-R	TRANSISTOR		3
Q1301	2SB1218A-R	TRANSISTOR		1
Q1302	2SD1819A-R	TRANSISTOR		1
Q1304-06	2SA1532-B	TRANSISTOR		3
Q1307	2SD1819A-R	TRANSISTOR		1
Q1401, 02	2SD1819A-R	TRANSISTOR		2
Q1403-06	2SA1532-B	TRANSISTOR		4
Q1407-10	2SD1819A-R	TRANSISTOR		4
Q1411, 12	2SK198-R	TRANSISTOR		2
Q1501, 02	2SD1819A-R	TRANSISTOR		2
Q1503	2SB1218A-R	TRANSISTOR		1
Q1504	2SD1819A-R	TRANSISTOR		1
Q1505	2SA1532-B	TRANSISTOR		1
QR1201, 02	UN5213	TRANSISTOR-RESISTOR		2
QR1401, 02	UN5213	TRANSISTOR-RESISTOR		2
R1101	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1
R1106-16	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	11
R1201, 02	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	2
R1203	ERJ3RBD682	M. RESISTOR CH 1/16W	6. 8K	1
R1204, 05	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	2
R1206	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	1
R1207	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	1
R1208	ERJ3RBD471	M. RESISTOR CH 1/16W	470	1
R1209	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1
R1210	ERJ3RBD103	M. RESISTOR CH 1/16W	10K	1
R1211	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1
R1212	ERJ3RBD101	M. RESISTOR CH 1/16W	100	1
R1213	ERJ3RBD393	M. RESISTOR CH 1/16W	39K	1
R1214	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	1
R1215	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R1216	ERJ3RED560	M. RESISTOR CH 1/16W	56	1
R1217	ERJ3RBD471	M. RESISTOR CH 1/16W	470	1
R1218	ERJ3GEYJ393	M. RESISTOR CH 1/16W	39K	1
R1219	ERJ3GEYJ273	M. RESISTOR CH 1/16W	27K	1
R1220	ERJ3GEYJ222	M. RESISTOR CH 1/16W	2. 2K	1
R1221	ERJ3GEYJ393	M. RESISTOR CH 1/16W	39K	1
R1222	ERJ3GEYJ181	M. RESISTOR CH 1/16W	180	1
R1223	ERJ3RBD331	M. RESISTOR CH 1/16W	330	1
R1224	ERJ3RBD101	M. RESISTOR CH 1/16W	100	1
R1227	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R1228	ERJ3RBD101	M. RESISTOR CH 1/16W	100	1
R1229, 30	ERJ3RBD471	M. RESISTOR CH 1/16W	470	2
R1231, 32	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	2

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1233	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1
R1234	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1
R1235	ERJ3GEYJ750	M. RESISTOR CH 1/16W	75	1
R1236	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K	1
R1237, 38	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	2
R1239	ERJ3GEYJ153	M. RESISTOR CH 1/16W	15K	1
R1240	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1
R1241	ERJ3GEYJ681	M. RESISTOR CH 1/16W	680	1
R1242	ERJ3RBD221	M. RESISTOR CH 1/16W	220	1
R1243	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1
R1244	ERJ3RBD221	M. RESISTOR CH 1/16W	220	1
R1245, 46	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	2
R1247	ERJ3GEYJ821	M. RESISTOR CH 1/16W	820	1
R1248	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	1
R1249	ERJ3GEYJ750	M. RESISTOR CH 1/16W	75	1
R1250, 51	ERJ3GEYG152	M. RESISTOR CH 1/16W	1. 5K	2
R1252	ERJ3RBD221	M. RESISTOR CH 1/16W	220	1
R1253	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K	1
R1254	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1
R1255	ERJ3RBD221	M. RESISTOR CH 1/16W	220	1
R1256	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1
R1257	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1
R1258	ERJ3GEYJ222	M. RESISTOR CH 1/16W	2. 2K	1
R1259	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1
R1260	ERJ3RBD123	M. RESISTOR CH 1/16W	12K	1
R1261	ERJ3RBD151	M. RESISTOR CH 1/16W	150	1
R1263	ERJ3RBD222	M. RESISTOR CH 1/16W	2. 2K	1
R1264	ERJ3RBD103	M. RESISTOR CH 1/16W	10K	1
R1266	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	1
R1267, 68	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2
R1269	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	1
R1270	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1
R1271	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1
R1301	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1
R1302	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R1303	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1
R1304	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1
R1305	ERJ3RBD331	M. RESISTOR CH 1/16W	330	1
R1306	ERJ3RBD221	M. RESISTOR CH 1/16W	220	1
R1307	ERJ3GEYG152	M. RESISTOR CH 1/16W	1. 5K	1
R1308	ERJ3RBD101	M. RESISTOR CH 1/16W	100	1
R1309, 10	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2
R1311	ERJ3RBD471	M. RESISTOR CH 1/16W	470	1
R1312	ERJ3RBD223	M. RESISTOR CH 1/16W	22K	1
R1313	ERJ6RED750	M. RESISTOR CH 1/10W	75	1
R1315	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	1
R1316	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1
R1318	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1
R1320	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1
R1322	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1
R1323	ERJ3RBD331	M. RESISTOR CH 1/16W	330	1
R1324	ERJ3RBD221	M. RESISTOR CH 1/16W	220	1
R1325	ERJ3RBD121	M. RESISTOR CH 1/16W	120	1
R1326, 27	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	2
R1328	ERJ3RBD471	M. RESISTOR CH 1/16W	470	1
R1329	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1
R1330	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1
R1331	ERJ6GEY0R00	M. RESISTOR CH 1/10W	0	1
R1332	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1
R1334	ERJ3RBD682	M. RESISTOR CH 1/16W	6. 8K	1
R1335	ERJ3RBD101	M. RESISTOR CH 1/16W	100	1
R1336	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	1
R1337	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1
R1338	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1
R1339	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1
R1402	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	1
R1404	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	1
R1405, 06	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K	2
R1407-10	ERJ3RBD681	M. RESISTOR CH 1/16W	680	4
R1411	ERJ3GEYG152	M. RESISTOR CH 1/16W	1. 5K	1
R1412	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1
R1413	ERJ3GEYG152	M. RESISTOR CH 1/16W	1. 5K	1
R1414	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1
R1415	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1
R1416	ERJ3GEYJ271	M. RESISTOR CH 1/16W	270	1



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1417	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1418	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R1419	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R1420	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1421	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R1422	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1423	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1424	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R1425	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1426	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1427	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1428	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1429	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R1430	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1431, 32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1433, 34	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1435, 36	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R1437	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1438, 39	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R1440	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1441, 42	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R1445, 46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1447, 48	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R1449	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R1450	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R1451	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R1452	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R1453, 54	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R1455	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1456	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R1457, 58	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R1459	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R1460, 61	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R1462, 63	ERJ6RED750	M. RESISTOR CH 1/10W 75	2	
R1466, 67	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R1469	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R1501	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1502	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1503	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R1504	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R1506	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R1507	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R1509, 10	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R1511	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R1512	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R1513, 14	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1515	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R1516	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R1517	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1518	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R1519	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R1520, 21	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R1522	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R1525	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R1526-29	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R1530, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1532, 33	ERJ3RED750	M. RESISTOR CH 1/16W 75	2	
R1535	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
TG1201	EYF6CU	TEST POINT	1	
TG1301	EYF6CU	TEST POINT	1	
TG1401	EYF6CU	TEST POINT	1	
TP1201	EYF6CU	TEST POINT	1	
TP1301-03	EYF6CU	TEST POINT	3	
TP1401, 02	EYF6CU	TEST POINT	2	
TP1501	EYF6CU	TEST POINT	1	
VR1201	VRV0161B501	V. RESISTOR	500	1
VR1202-04	VRV0161B102	V. RESISTOR	1K	3
VR1401, 02	VRV0161B102	V. RESISTOR	1K	2

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E16	VEP83470B	V OUT 2 P.C. BOARD	1	(RTL)
C201	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C203, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C207, 08	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C209	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C210-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C213	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C214	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C215	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C218	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C219, 20	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	2	
C221-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C224	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C225	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C226	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C228	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C229	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C230	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
C231	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C232	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C233	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C234	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C235	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C236	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C237	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C238, 39	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C240	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C241	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C243, 44	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C245, 46	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C301	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C303	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C304	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C306, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C310	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C312	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C314	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C316	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C318	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C319	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C320	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C401, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C403	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C404, 05	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C406, 07	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	2	
C408	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C409, 10	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	2	
C411, 12	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C413	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C416-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C420, 21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C422, 23	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2	
C424, 25	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C426, 27	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C430-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C501	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C503	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C504	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C505	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C506	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C507	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C508	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C509	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C510	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C511, 12	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C513	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C514	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C515-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C523, 24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C526	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C527	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D202	MA142WK	DIODE	1	
D502	MA28WA	DIODE	1	
FL201	VLF1354	FILTER	1	
FL401, 02	VLF1476	FILTER	2	
IC201	TC7S08FU	IC	1	
IC202	NJM082BV	IC	1	
IC203	TC7S00FU	IC	1	
IC204	AD828AR	IC	1	
IC205	NJM78L09UA	IC	1	
IC206	AN77L05M	IC	1	
IC207	XC62DN5002P	IC	1	
IC301	AD828AR	IC	1	
IC302	MC14053BDT	IC	1	
IC303	NJM2534V	IC	1	
IC401	TC7S08FU	IC	1	
IC402	NJM082BV	IC	1	
IC403	AD828AR	IC	1	
IC404	NJM082BV	IC	1	
IC501	TC7S00FU	IC	1	
IC502, 03	NJM2534V	IC	2	
IC504	AD828AR	IC	1	
L201, 02	VLQ0319K101	COIL 100UH	2	
L206	VLQ0426J2R2	COIL 2. 2UH	1	
L207	VLQ0426J680	COIL 68UH	1	
L401, 02	VLQ0319K101	COIL 100UH	2	
L403, 04	VLQ0426J6R8	COIL 6. 8UH	2	
L501	VLQ0426J180	COIL 18UH	1	
L502	VLQ0426J220	COIL 22UH	1	
L503	VLQ0426J180	COIL 18UH	1	
L504	VLQ0426J220	COIL 22UH	1	
L505, 06	VLQ0319K101	COIL 100UH	2	
P102	VJP3125B014	CONNECTOR (MALE)	1	
P103	VJS37910D040	CONNECTER (FEMALE)	1	
P104	VJP3125B005	CONNECTOR (MALE) 5P	1	
Q201-03	2SD1819A-R	TRANSISTOR	3	
Q204	2SK198-R	TRANSISTOR	1	
Q205	2SC3930-B	TRANSISTOR	1	
Q206	2SB1218A-R	TRANSISTOR	1	
Q207	2SA1532-B	TRANSISTOR	1	
Q208	2SB1218A-R	TRANSISTOR	1	
Q209	2SC3930-B	TRANSISTOR	1	
Q210	2SD1819A-R	TRANSISTOR	1	
Q211-13	2SB1218A-R	TRANSISTOR	3	
Q301	2SB1218A-R	TRANSISTOR	1	
Q302	2SD1819A-R	TRANSISTOR	1	
Q304-06	2SA1532-B	TRANSISTOR	3	
Q307	2SD1819A-R	TRANSISTOR	1	
Q401, 02	2SD1819A-R	TRANSISTOR	2	
Q403-06	2SA1532-B	TRANSISTOR	4	
Q407-10	2SD1819A-R	TRANSISTOR	4	
Q411, 12	2SK198-R	TRANSISTOR	2	
Q501, 02	2SD1819A-R	TRANSISTOR	2	
Q503	2SB1218A-R	TRANSISTOR	1	
Q504	2SD1819A-R	TRANSISTOR	1	
Q505	2SA1532-B	TRANSISTOR	1	
QR201, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR401, 02	UN5213	TRANSISTOR-RESISTOR	2	
R101	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R106-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	11	
R201, 02	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R203	ERJ3RBD682	M. RESISTOR CH 1/16W 6. 8K	1	
R204, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R206	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R207	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R208	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R209	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R210	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R211	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R212	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R213	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R214	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R215	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R216	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R217	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R218	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R219	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R220	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R221	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R222	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R223	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R224	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R227	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R228	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R229, 30	ERJ3RBD471	M. RESISTOR CH 1/16W 470	2	
R231, 32	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R233	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R234	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R235	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
R236	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R237, 38	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	2	
R239	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R240	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R241	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R242	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R243	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R244	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R245, 46	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R247	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R248	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R249	ERJ3GEYJ750	M. RESISTOR CH 1/16W 75	1	
R250, 51	ERJ3GEYG152	M. RESISTOR CH 1/16W 1. 5K	2	
R252	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R253	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R254	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R255	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R256	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R257	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R258	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R259	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R260	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R261	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R263	ERJ3RBD222	M. RESISTOR CH 1/16W 2. 2K	1	
R264	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R266	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R267, 68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R269	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R270	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R271	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R301	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R302	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R303	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R304	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R305	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R306	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R307	ERJ3GEYG152	M. RESISTOR CH 1/16W 1. 5K	1	
R308	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R309, 10	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R311	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R312	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R313	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R315	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	1	
R316	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R318	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R320	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R322	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R323	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R324	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R325	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R326, 27	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	2	
R328	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R329	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R330	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R331	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R332	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R334	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R335	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R336	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R337	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R338	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R339	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R402	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R404	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R405, 06	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R407-10	ERJ3RBD681	M. RESISTOR CH 1/16W 680	4	
R411	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R412	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R413	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R414	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R416	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R417	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R418	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	
R419	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R420	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R421	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R422	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R423	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R424	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R425	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R426	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R427	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R428	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R429	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R430	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R431, 32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R433, 34	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R435, 36	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R437	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R438, 39	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R440	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R441, 42	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R445, 46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R447, 48	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R449	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R450	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R451	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R452	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R453, 54	ERJ3RBD331	M. RESISTOR CH 1/16W 330	2	
R455	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R456	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R457, 58	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R459	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R460, 61	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R462, 63	ERJ6RED750	M. RESISTOR CH 1/10W 75	2	
R466, 67	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R469	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R501	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R502	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R503	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R504	ERJ3GEYJ474	M. RESISTOR CH 1/16W 470K	1	
R506	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R507	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R509, 10	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R511	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R512	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R513, 14	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R515	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R516	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R517	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R518	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R519	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R520, 21	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R522	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R525	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R526-29	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R530, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R532, 33	ERJ3RED750	M. RESISTOR CH 1/16W 75	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R535	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
TG201	EYF6CU	TEST POINT	1	
TG301	EYF6CU	TEST POINT	1	
TG401	EYF6CU	TEST POINT	1	
TP201	EYF6CU	TEST POINT	1	
TP301-03	EYF6CU	TEST POINT	3	
TP401, 02	EYF6CU	TEST POINT	2	
TP501	EYF6CU	TEST POINT	1	
VR201	VRV0161B501	V. RESISTOR 500	1	
VR202-04	VRV0161B102	V. RESISTOR 1K	3	
VR401, 02	VRV0161B102	V. RESISTOR 1K	2	
■ E17	VEP83471A	ENCODER VR 1 P. C. BOARD	1 (RTL)	
C1	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
P1	VJS3927C008J	CONNECTOR (FEMALE)	1	
P2	VJS3927C012J	CONNECTOR (FEMALE)	1	
R1, R2	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R3	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4, R5	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R6	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R7-14	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	8	
SW1	VSR0066	SWITCH	1	
TP1-P8	EYF6CU	TEST POINT	8	
VR1-R3	VRV0280	V. RESISTOR	3	
VR4-R6	VRV0279	V. RESISTOR	3	
VR7	VRV0303B503	V. RESISTOR 50K	1	
■ E18	VEP83472A	ENCODER VR 2 P. C. BOARD	1 (RTL)	
C1	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
P1	VJS3927C008J	CONNECTOR (FEMALE)	1	
P2	VJS3927C012J	CONNECTOR (FEMALE)	1	
R1, R2	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R3	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4, R5	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R6	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R7-14	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	8	
SW1	VSR0066	SWITCH	1	
TP1-P8	EYF6CU	TEST POINT	8	
VR1-R3	VRV0280	V. RESISTOR	3	
VR4-R6	VRV0279	V. RESISTOR	3	
VR7	VRV0303B503	V. RESISTOR 50K	1	
■ E19	VEP83473B	DIGITAL 1 P. C. BOARD	1 (RTL)	
■	VEP88234Z	DV UCOM P. C. BOARD	1 (RTL) FOR VEP83473B	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1-C4	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C30001-09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C30101-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C30201-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C30301-13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	13	
C30403-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C30407-14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C30501	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30502	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C30503-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C30509	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30510	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C30511	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C30512	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30513-19	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
C30520	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30521	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C30522-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C30601	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C30602	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C30603	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C30604-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C30701-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C30801-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C30812-19	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C30820	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C30901-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C31001-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	12	
C31101-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C31201-15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	15	
C31216	EEVHB0J470	E. CAPACITOR 6.3V 47U	1	
C31217	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31218	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31219-22	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C31223	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31224	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31225	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31226	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31227	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31228	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31303	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C31304-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C31401-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C31501-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C31601-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C31701	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31702-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C31705	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C31706-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C31712	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C31713	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C31714-17	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C31801	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31802, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C31804	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C31805	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31806	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31807	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31808	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C31809, 10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C31811	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C31812	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31813	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31814	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C31815, 16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C31817	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C31818	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C31819	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C31820	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C31821	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C31822	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C31823	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31824	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C31825-27	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C31830	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C31901	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31902	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31903	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C31904	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31905	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C31906	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31907	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31908-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C31911	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C31912	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31913	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C31914	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31915	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31916	ECEV1VAN2R2	E. CAPACITOR CH 35V 2.2U	1	
C31917	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31918, 19	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C31920	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C31921	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31922	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C31923	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C31924	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31925	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31926, 27	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C31928	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31930	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31931	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C31932	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C31933-35	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C31937	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C32001-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C32004	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32005-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C32009	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C32010-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C32013	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32014-17	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C32018	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C32019	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32020	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C32021	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C32022-25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C32026	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C32027-29	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C32101-13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	13	
C32201-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C32301-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C32311, 12	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C32401-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C32407	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32501-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C32506	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32507, 08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C32509	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32510	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C32511, 12	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C32513	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C32514, 15	EEVHB0J470	E. CAPACITOR 6.3V 47U	2	
C32516-18	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C32519	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32520-25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C32526, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C32528-35	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C32536	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32537, 38	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C32539	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C32540-42	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C32601-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C32607	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C32701	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C32702	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C32703-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C32706	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C32707	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C32801	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C32805-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C32810	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C32901-17	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	17	
C33101-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C33104	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33105, 06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33107, 08	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C33109	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33110	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33111, 12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33113, 14	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C33115	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33116	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33117, 18	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33119	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C33120, 21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33122, 23	EEVHBOJ330	E. CAPACITOR 6.3V 33U	2	
C33124	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33125	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33126, 27	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33128, 29	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C33130	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33131	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C33132, 33	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C34001-14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	14	
C34101-09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C53001, 02	EEVHB1C470	E. CAPACITOR 16V 47U	2	
C53005, 06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53008	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C53012	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C53013	ECST1AC476Z	T. CAPACITOR CH 10V 47U	1	
C53015	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C53016, 17	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53019	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C53021	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C53023	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C53101, 02	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	2	
C53103-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C53106, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C53108-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C53112	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53113	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
C53114	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C53119, 20	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53122	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C53124, 25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53126	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53131, 32	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53137, 38	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C53143, 44	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53145, 46	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C53147, 48	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53149	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53151, 52	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C53153-55	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C53156, 57	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C53158-61	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C53162	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53163	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
C53164	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C53169, 70	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53172	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C53174, 75	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53176	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53181, 82	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53187, 88	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C53193, 94	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53195, 96	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C53197, 98	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C53199	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53501	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C53502	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C53503	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C53504-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	28	
C53532	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C53533-37	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C53539	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53540	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C53601	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C53602	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C53603	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C53604-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	28	
C53632	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C53633-37	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C53639	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C53701	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C53702	EEVHBOJ330	E. CAPACITOR 6.3V 33U	1	
C53703-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
D30501, 02	M1MA152K	DIODE	2	
D31201-03	MA729	DIODE	3	
D31801	MA142WK	DIODE	1	
D31901	MA142K	DIODE	1	
D31902	MA335-R	DIODE	1	
D31903	M1MA152K	DIODE	1	
D32001	M1MA152K	DIODE	1	
D32501, 02	MA715	DIODE	2	
D32801-03	MA729	DIODE	3	
D32901-03	MA715	DIODE	3	
D33101, 02	MA701A	DIODE	2	
D53001	MA701A	DIODE	1	
D53701	MA142K	DIODE	1	
FL31901	VLF1016A223	FILTER	1	
FL32001, 02	VLF0941C223	FILTER	2	
FL33101-10	VLF1016A223	FILTER	10	
FL53001, 02	VLF0931	FILTER	2	
IC1	M31020EAVP	IC	1	
IC30001	PZ3960C7EB	IC	1	
IC30002	VS13443	IC	1	
IC30101-04	TVHC244FT	IC	4	
IC30201, 02	TVHC244FT	IC	2	
IC30203	TC7SH08FU	IC	1	
IC30301	TVHC04FT	IC	1	
IC30302	MN47V78SP	IC	1	
IC30303	T160G70-1601	IC	1	
IC30304	MN47V78SP	IC	1	
IC30403, 04	TVHC541FT	IC	2	
IC30405	TVHC244FT	IC	1	
IC30406	TVHT244FT	IC	1	
IC30408	TC7SH04FU	IC	1	
IC30409	TC7SH32FU	IC	1	
IC30410-14	TVHC574FT	IC	5	
IC30501	TVHC157FT	IC	1	
IC30502	DM74LS123SJ	IC	1	
IC30503	TC7SH04FU	IC	1	
IC30504	MC74HC125AF	IC	1	
IC30505	TLCX244FT	IC	1	
IC30506	TVHC163FT	IC	1	
IC30507	NJM082BV	IC	1	
IC30508	TC4W53FU	IC	1	
IC30509	TVHC244FT	IC	1	
IC30510-13	TLCX244FT	IC	4	
IC30514	TC7SH08FU	IC	1	
IC30601	L7A1644	IC	1	
IC30701, 02	MN4707F	IC	2	
IC30801	TVHC244FT	IC	1	
IC30802, 03	MN67373	IC	2	
IC30805	TVHC244FT	IC	1	
IC30806	TVHC74FT	IC	1	
IC30901	TC7SH04FU	IC	1	
IC30902	TC7W125FU	IC	1	
IC30903, 04	TVHC244FT	IC	2	
IC30905	MB81V4260S7	IC	1	
IC30906	L7A1645	IC	1	
IC30907	TC7W241FU	IC	1	
IC31001	TLCX125FT	IC	1	
IC31002	MB81V4260S7	IC	1	
IC31003	M65501FP	IC	1	
IC31004	TLCX125FT	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC31101	MB81V4260S7	IC	1	
IC31102	M65501FP	IC	1	
IC31201	TC7SH04FU	IC	1	
IC31202	TVHC74FT	IC	1	
IC31203	MC10H124M	IC	1	
IC31204, 05	TVHC74FT	IC	2	
IC31206	TVHC153FT	IC	1	
IC31207, 08	TVHC244FT	IC	2	
IC31209	XC62FP3302P	IC	1	
IC31210	TLCX244FT	IC	1	
IC31211	MN47V76SP	IC	1	
IC31212	TLCX244FT	IC	1	
IC31213	L7A1645	IC	1	
IC31214	MN47V76SP	IC	1	
IC31215	TVHC244FT	IC	1	
IC31302	TC7SH04FU	IC	1	
IC31303	TC7SH32FU	IC	1	
IC31304	TLCX245FT	IC	1	
IC31305, 06	TLCX573FT	IC	2	
IC31307	TLCX138FT	IC	1	
IC31308	IDT71V321L5F	IC	1	
IC31309, 10	TC7SH32FU	IC	2	
IC31401-03	TVHC244FT	IC	3	
IC31501	UPD65943G028	IC	1	
IC31601	TLCX574FT	IC	1	
IC31602	T203E3801AF1	IC	1	
IC31701	TVHC221FT	IC	1	
IC31702	UPD65650J203	IC	1	
IC31703	TVHC244FT	IC	1	
IC31704	TC7SH08FU	IC	1	
IC31705	TC7SH04FU	IC	1	
IC31706, 07	TC7SH08FU	IC	2	
IC31801	AN91A12S	IC	1	
IC31802	NE521D	IC	1	
IC31803	MC74HC04AF	IC	1	
IC31804-06	TVHC221FT	IC	3	
IC31901	MC14053BDT	IC	1	
IC31902	TC7SH08FU	IC	1	
IC31903, 04	NJM082BV	IC	2	
IC31905	NE521D	IC	1	
IC31906	NJM78L09UA	IC	1	
IC31907, 08	TC7SH00FU	IC	2	
IC31909	MC74HC125AF	IC	1	
IC32001, 02	TVHT374FT	IC	2	
IC32003	TVHC574FT	IC	1	
IC32004	DAC10GS	IC	1	
IC32005	NJM082BV	IC	1	
IC32006	TC7SH04FU	IC	1	
IC32007	NJM082BV	IC	1	
IC32008	TVHC74FT	IC	1	
IC32009	TLCX244FT	IC	1	
IC32010	TVHC244FT	IC	1	
IC32011	TVHT244FT	IC	1	
IC32012	TC7SH08FU	IC	1	
IC32101	TC7SH04FU	IC	1	
IC32102	TLCX541FT	IC	1	
IC32103	TLCX574FT	IC	1	
IC32104, 05	TVHC244FT	IC	2	
IC32106	TLCX574FT	IC	1	
IC32107	TVHT244FT	IC	1	
IC32108, 09	TVHT374FT	IC	2	
IC32110	MB87D132	IC	1	
IC32201	T160G70-1601	IC	1	
IC32202, 03	MN47V78SP	IC	2	
IC32204, 05	TLCX541FT	IC	2	
IC32206, 07	TVHC541FT	IC	2	
IC32301	TC7SH32FU	IC	1	
IC32302	UPD65944G020	IC	1	
IC32303, 04	UPD485506G25	IC	2	
IC32401, 02	TVHT541FT	IC	2	
IC32403	UPD485506G25	IC	1	
IC32404, 05	TVHC541FT	IC	2	
IC32501-03	TVHT541FT	IC	3	
IC32504	UPD485506G25	IC	1	
IC32505, 06	ADV7171KS	IC	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC32507	AD9300KP	IC	1	
IC32508, 09	TVHC541FT	IC	2	
IC32510	NE521D	IC	1	
IC32601, 02	TVHT541FT	IC	2	
IC32603	UPD485506G25	IC	1	
IC32604, 05	TVHC541FT	IC	2	
IC32701	ADV7122KST50	IC	1	
IC32702	AD589JR	IC	1	
IC32801	THC4053FT	IC	1	
IC32802	NJM084V	IC	1	
IC32803	XC62FP3302P	IC	1	
IC32901, 02	SN74S1051NS	IC	2	
IC32903, 04	TVHT541FT	IC	2	
IC32905-07	TVHC541FT	IC	3	
IC32908	TVHC245FT	IC	1	
IC32909	TVHC139FT	IC	1	
IC32910	TVHC245FT	IC	1	
IC32911	HD151015	IC	1	
IC32912	T163G26-1019	IC	1	
IC32913	TVHT244FT	IC	1	
IC33101-04	XC62FP5002P	IC	4	
IC33105	XC62DN5002P	IC	1	
IC33106	XC62FP2302P	IC	1	
IC34001	UG10358B	IC	1	
IC34002	UPD485506G25	IC	1	
IC34003	UPD65013F101	IC	1	
IC34004-07	TLCX541FT	IC	4	
IC34008, 09	TLCX574FT	IC	2	
IC34101	PZ3960C7EB	IC	1	
IC34102	VS13444	IC	1	
IC53001	LT1086CM	IC	1	
IC53003	LT1129CS8	IC	1	
IC53004	LT1175CS8	IC	1	
IC53101	UPC1663G	IC	1	
IC53151	UPC1663G	IC	1	
IC53501	MN673796	IC	1	
IC53502	NJM084V	IC	1	
IC53503	TVHC574FT	IC	1	
IC53504	TVHC244FT	IC	1	
IC53601	MN673796	IC	1	
IC53602	NJM084V	IC	1	
IC53603	TVHC574FT	IC	1	
IC53701	TC7W04FU	IC	1	
IC53702	TVHC157FT	IC	1	
IC53703	TVHC244FT	IC	1	
IC53704	TVHC157FT	IC	1	
IC53705	S80727ANDQ	IC	1	
IC53706	TC4S69F	IC	1	
IS30002	VJS3096308	CONNECTOR (FEMALE)	1	
IS34102	VJS3096308	CONNECTOR (FEMALE)	1	
L30501-03	VLQ0319K470	COIL 47UH	3	
L31701	VLQ0319K470	COIL 47UH	1	
L31801	VLQ0319K221	COIL 220UH	1	
L31802	VLQ0319K101	COIL 100UH	1	
L31803	VLQ0163J390	COIL 39UH	1	
L31804	VLQ0319K470	COIL 47UH	1	
L31901	VLQ0319K470	COIL 47UH	1	
L31902	VLQ0163J221	COIL 220UH	1	
L31903-06	VLQ0319K470	COIL 47UH	4	
L32001-03	VLQ0319K470	COIL 47UH	3	
L32501-04	VLQ0319K220	COIL 22UH	4	
L32701	VLQ0576	COIL	1	
L32702	VLQ0319K101	COIL 100UH	1	
L33101-03	VLP0133	COIL	3	
L53001-03	ERJ14YOR00	M. RESISTOR CH 1/4W 0	3	
L53102	VLQ0163J5R6	COIL 5. 6UH	1	
L53152	VLQ0163J5R6	COIL 5. 6UH	1	
P1	VJP4106A120L	CONNECTOR (MALE)	1	
P30001	VJP3950C007	CONNECTOR (MALE)	1	
P31302	VJS4106A120L	CONNECTOR (FEMALE)	1	
P32701	VJP3125B012	CONNECTOR (MALE)	1	
P33201, 02	VJS4313D080	CONNECTOR (FEMALE)	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P33203	VJP3950A003	CONNECTOR (MALE)	1	
P33204	VJP3125B012	CONNECTOR (MALE)	1	
P33205, 06	VJS4313D080	CONNECTOR (FEMALE)	2	
P33207	VJP3927D012	CONNECTOR (MALE)	1	
P33208	VJP3927D008	CONNECTOR (MALE)	1	
P33301	VJS4313D080	CONNECTOR (FEMALE)	1	
P33302	VJS4329A030	CONNECTOR (FEMALE)	1	
P33303	VJP2739B008	CONNECTOR (MALE)	1	
P33304	VJS3406D010	CONNECTOR (FEMALE)	1	
P33305, 06	VJS3406D012	CONNECTOR (FEMALE)	2	
P34101	VJP3950C007	CONNECTOR (MALE)	1	
P53001	VJS4313D080	CONNECTOR (FEMALE)	1	
Q31901	2SB709A-R	TRANSISTOR	1	
Q31902, 03	2SK608-R	TRANSISTOR	2	
Q32501-03	2SB1218A-R	TRANSISTOR	3	
Q32504	2SD1819A-R	TRANSISTOR	1	
Q32505	2SB1218A-R	TRANSISTOR	1	
Q32701-03	2SB1218A-R	TRANSISTOR	3	
Q53101	2SC3930-B	TRANSISTOR	1	
Q53102	XN6537	TRANSISTOR-RESISTOR	1	
Q53103	2SC3930-B	TRANSISTOR	1	
Q53104	XN5531	TRANSISTOR-RESISTOR	1	
Q53105	2SC3930-B	TRANSISTOR	1	
Q53107	2SA1532-B	TRANSISTOR	1	
Q53109, 10	2SK508K512	TRANSISTOR	2	
Q53111, 12	2SC3935	TRANSISTOR	2	
Q53151	2SC3930-B	TRANSISTOR	1	
Q53152	XN6537	TRANSISTOR-RESISTOR	1	
Q53153	2SC3930-B	TRANSISTOR	1	
Q53154	XN5531	TRANSISTOR-RESISTOR	1	
Q53155	2SC3930-B	TRANSISTOR	1	
Q53157	2SA1532-B	TRANSISTOR	1	
Q53159, 60	2SK508K512	TRANSISTOR	2	
Q53161, 62	2SC3935	TRANSISTOR	2	
Q53501, 02	2SA1532-B	TRANSISTOR	2	
Q53503, 04	2SC3930-B	TRANSISTOR	2	
Q53601, 02	2SA1532-B	TRANSISTOR	2	
Q53603, 04	2SC3930-B	TRANSISTOR	2	
Q53702	2SA1532-B	TRANSISTOR	1	
R30003, 04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30006	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30008	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30010	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30012	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30033	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30045-47	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R30062-65	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R30093-95	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30101, 02	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R30103	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30104-27	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	24	
R30128	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30129	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30130, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30132-55	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	24	
R30156-63	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R30201	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30203, 04	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R30205-20	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16	
R30301-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30310	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30312-16	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	5	
R30317	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30318-20	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	3	
R30321	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30323	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30325	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30327, 28	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30337-44	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	8	
R30403	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30404-07	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R30408, 09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30412-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	23	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R30435-37	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	
R30438, 39	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R30440, 41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30442-55	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	14	
R30456, 57	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30460-67	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R30501	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30502, 03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30504, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30506	ERJ3RED394	M. RESISTOR CH 1/16W 390K	1	
R30508-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30511	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R30512-14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R30515	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R30516	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30517, 18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30519	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R30520	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R30521-25	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R30526, 27	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R30528	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30529	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30530, 31	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R30534	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30535-37	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R30539	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30540-55	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16	
R30557	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30558-61	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R30567, 68	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30573	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30601	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30602	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R30603	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30604-06	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R30607, 08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30610, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30612, 13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30614	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30615-20	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R30622	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30623	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30701	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30702	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30703	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30705	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30801	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30802, 03	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R30804	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30805, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30807	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30809-11	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R30813	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R30814	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30818-26	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	9	
R30828	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R30829, 30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30831	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30901, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R30903	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30904, 05	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R30906, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30908	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30909	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31001	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31002-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31005	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31006	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31007-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31010	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31011	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31012-14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31015	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31016, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31018-21	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R31022	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31024, 25	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31026	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31028, 29	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31030-34	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R31035-40	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R31101	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31102, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31104	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31105	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31106-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31109	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31110	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31111, 12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31113-17	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R31118	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31119, 20	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31121	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31124, 25	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31126-29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R31130-35	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R31201	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31202-05	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R31206	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31207	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31208-11	ERJ3RBD271	M. RESISTOR CH 1/16W 270	4	
R31212-19	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
R31220-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R31225	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31227-31	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R31232	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31233	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31234	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31235	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31236	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31237-39	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31240	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31241	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31242-45	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R31248	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31250	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31253-56	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R31257	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31258	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31259, 60	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31261	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31262-69	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R31270, 71	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31272	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31273	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31274	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31301	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31302	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31303-05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R31307	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31316	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R31319	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31320, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31322, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31324	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31327, 28	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31330	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31331-33	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R31336	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31340, 41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31343	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R31344-46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R31347, 48	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31349-54	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R31355	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31356, 57	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31358, 59	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31402	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31406-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R31409-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R31427-32	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R31475	ERDS2TJ182	C. RESISTOR 1/4W 1.8K	1	
R31503	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31505	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31506	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31601	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31602-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31605, 06	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R31607	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31608, 09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31702	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R31703	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R31704	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R31705	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31706	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31707-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31716, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31718	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R31719	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31721	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31722-31	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
R31732	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31734	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31801	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R31802	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R31803	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31804	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R31805	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31806-08	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	3	
R31809	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R31810	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R31811	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R31812	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R31813, 14	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R31815	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31817	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R31818	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R31819	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R31820	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R31821	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R31822, 23	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31824	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31901	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R31902	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R31903	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R31904	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R31905	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31907-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R31913	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R31914	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R31915	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R31916	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R31917	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R31918	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31919	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31920	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31921	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31922	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31923	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R31924	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R31925	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R31926	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31927	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R31928	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R31929	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31930, 31	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R31932	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31934	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31936, 37	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31938, 39	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32001, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32003	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32004, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32006	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32007	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R32008	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R32009-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32012	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R32013	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R32014	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R32015	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R32016	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R32017, 18	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R32019	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R32020	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32021	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R32022	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32023	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32024-26	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32028, 29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32030	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32031-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R32037	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32101	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32102, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32104	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32105	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32106	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32107-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32111	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32112-14	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32116-22	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	7	
R32123, 24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32125-27	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R32128, 29	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R32130	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32131, 32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32134	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32140, 41	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32202	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32204	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32205	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32206	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32207	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32208	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32209	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32210	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32211, 12	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32213-28	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	16	
R32301	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32304	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32305	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32306	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32307-15	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	9	
R32316	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32317	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32318-27	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	10	
R32328	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32329-52	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	24	
R32353	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32401, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32403, 04	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32405, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32407	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32408	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32409, 10	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32411-23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	13	
R32501, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32503, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32505	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32506	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32507	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32508	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32511, 12	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R32513, 14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32515-18	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R32519	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R32520	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32521	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R32522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R32523	ERJ3RBD151	M. RESISTOR CH 1/10W 150	1	
R32525	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R32526	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32527-29	ERJ6RED750	M. RESISTOR CH 1/10W 75	3	
R32531	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R32533	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R32534	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R32535	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R32536	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R32537	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R32538	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R32539, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32543	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32544	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R32545	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R32546, 47	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R32548, 49	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32550-59	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
R32561-63	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32564, 65	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32567	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32568, 69	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R32570	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R32571	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32572	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R32573	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32575-79	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R32601-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32605, 06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32607, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32609	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32610, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32612	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32613	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32614-17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32618	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32619-27	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	9	
R32631-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R32635	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32636	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32701	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32702	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R32703	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R32704	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32705	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R32706	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32707	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R32708	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32709-11	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R32712-14	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R32717-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32722, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32727	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32801	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32802-04	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32902-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32905-09	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
R32910, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32926-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32929-36	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	8	
R32937	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32938-40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R33101, 02	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R33202-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R33215-19	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R33220-23	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R33224	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34001	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R34002, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34005, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34010-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R34013	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R34015	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R34016, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34018	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R34019-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R34023	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R34024-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
R34032, 33	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R34034	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R34103, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34105	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34107, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34113	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34115	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34117	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34118	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34121, 22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34128	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34129	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R34135, 36	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34141	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R34144, 45	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34151	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R34160, 61	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34169-71	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R34201-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R34219	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34225	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34227	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34232	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34239	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34248	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R34251, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R34259-62	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R34263-65	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R53001	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53002	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R53003-06	ERJ3RBD331	M. RESISTOR CH 1/16W 330	4	
R53101, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53103, 04	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R53105	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53106	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53107	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R53108	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R53109	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R53110	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53111	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R53112	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53113, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R53115, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53117, 18	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R53119	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R53120	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53121	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R53122	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53123	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R53125	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53127, 28	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53131	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53133	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53135	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53136, 37	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R53138	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R53140	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53141	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53145	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53146	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53147	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R53148	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53149	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R53151, 52	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53153, 54	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R53155	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53156	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53157	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R53158	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R53159	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R53160	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53161	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R53162	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53163, 64	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R53165, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53167, 68	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R53169	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R53170	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53171	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R53172	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53173	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R53175	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53177, 78	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53181	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53183	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53185	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53186, 87	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R53188	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R53190	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53191	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53195	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53196	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53197	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R53198	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53199	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R53501, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R53503	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53504	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R53505	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53508, 09	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R53510	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53511	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53518	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53519	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53520	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53521	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53524-27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R53529-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R53532	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R53533, 34	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53535	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53536	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53537	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R53538	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R53539, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R53542	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R53543	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53544	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53545	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53546	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R53547	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53548	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53549	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R53550	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R53551	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R53552	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R53553	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R53554	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R53555	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R53556	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53557	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53558	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53559-62	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R53563	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53601, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R53603	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53604	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R53605	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53608, 09	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R53610	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53611	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53618	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R53619	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53620	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53621	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53624-27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R53629-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R53632	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R53633, 34	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R53635	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R53636	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R53637	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R53638	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R53639, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R53642	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R53643	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53644	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53645	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53646	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R53647	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53648	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53649	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R53650	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R53651	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R53652	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R53653	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R53654	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R53655	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R53656	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53657	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R53658	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R53659-61	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R53663	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R53701	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R53703	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R53704, 05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R53706	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R53707-11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R53712	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R53713	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R53714-18	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
R53720	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
TG30101	EYF6CU	TEST POINT	1	
TG30301	EYF6CU	TEST POINT	1	
TG30801	EYF6CU	TEST POINT	1	
TG30901	EYF6CU	TEST POINT	1	
TG31201	EYF6CU	TEST POINT	1	
TG31301	EYF6CU	TEST POINT	1	
TG31701	EYF6CU	TEST POINT	1	
TG31801	EYF6CU	TEST POINT	1	
TG31901	EYF6CU	TEST POINT	1	
TG32201	EYF6CU	TEST POINT	1	
TG32901	EYF6CU	TEST POINT	1	
TG53001	EYF6CU	TEST POINT	1	
TG53101	EYF6CU	TEST POINT	1	
TP30001-04	EYF6CU	TEST POINT	4	
TP30501, 02	EYF6CU	TEST POINT	2	
TP30601	EYF6CU	TEST POINT	1	
TP30801	EYF6CU	TEST POINT	1	
TP30806	EYF6CU	TEST POINT	1	
TP31201	EYF6CU	TEST POINT	1	
TP31701-03	EYF6CU	TEST POINT	3	
TP31801-04	EYF6CU	TEST POINT	4	
TP31901-03	EYF6CU	TEST POINT	3	
TP53101, 02	EYF6CU	TEST POINT	2	
TP53151, 52	EYF6CU	TEST POINT	2	
TP53502	EYF6CU	TEST POINT	1	
TP53507-13	EYF6CU	TEST POINT	7	
TP53602	EYF6CU	TEST POINT	1	
TP53607-13	EYF6CU	TEST POINT	7	
TP53701, 02	EYF6CU	TEST POINT	2	
VC31901	VCV0050	TRIMMER	1	
VR31701	EVM7JGA00B53	V. RESISTOR 5K	1	
VR31801	EVM7JGA00B54	V. RESISTOR 50K	1	
VR31802	EVM7JGA00B14	V. RESISTOR 10K	1	
VR31901	EVM7JGA00B53	V. RESISTOR 5K	1	
VR32001	EVM7JGA00B53	V. RESISTOR 5K	1	
VR32501	EVM7JGA00B52	V. RESISTOR 500	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR32502, 03	EVM7JGA00B13	V. RESISTOR 1K	2	
VR32701-03	EVM7JGA00B22	V. RESISTOR 200	3	
X30501	VSX0906	CRYSTAL OSCILLATOR	1	
X31201	VSX0970	CRYSTAL OSCILLATOR	1	
X31901	VSX0316	CRYSTAL OSCILLATOR	1	
X31902	VSX0567A	CRYSTAL OSCILLATOR	1	
X32001	VSX0788	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	XC1701LPD8C	BLANK ROM	2	
	VMX2971	CARD EDGE SPACER	3	
	VMX2233	PCB SPACER	2	
	VMP6228	P. C. BOARD HOLDER ANGLE	1	
	XYN3+K8	SCREW	2	
	VJF0309	HOLDER	1	
	VMS6279	SPACER	2	
	XYN26+C35	SCREW	2	
	XYN26+C4FN	SCREW	2	
	VSC5075	V1 HEAT SINK	1	
	VMG1321	V1 HEAT CONDUCTIVE SHEET	1	
	XTV3+8F	SCREW	2	
■ E20	VEP83474B	DIGITAL 2 P. C. BOARD	1 (RTL)	
■	VEP88234Z	DV UCOM P. C. BOARD	1 (RTL) FOR VEP83474B	
C1-C4	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C30001-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C30007	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C30008-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C30151-63	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	13	
C30251-59	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C30351-64	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	14	
C30401-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C30501-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9	
C30601	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C30602	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C30603-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C30607	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C30608	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C30609	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30610	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C30611	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30612-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C30617	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C30618	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C30619-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C30701	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C30702	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C30703	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C30704	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C30705-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C30801-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C30901-18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	18	
C31001-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C31101-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7	
C31201-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	12	
C31301-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	
C31401-15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	15	
C31416	EEVHB0J470	E. CAPACITOR 6.3V 47U	1	
C31417, 18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C31419	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31420-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C31424	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31425	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31426	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C31427	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31428	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31429	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C31501	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1	
C31502	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31503	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C31504-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C31601-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C31701	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C31702	ECST1AX106Z	T. CAPACITOR CH 10V 10U	1	
C31703-09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
C31801	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31802	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31803	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31804-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C31809	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31810	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C31811	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C31812	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C31813	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C31901-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C32001-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C32101-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C32201-17	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	17	
C32301-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C32305	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C32306	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C32307	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C32308-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C32401-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C32501-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C32601-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C32801-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C32901-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C33001, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33004	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33006	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33008	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33010	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33101-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	12	
C33201-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	12	
C33301-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C33311, 12	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C33401-09	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C33410	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33501-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C33506	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33507	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33508	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33509	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33510	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33511	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33512	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33513	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33514, 15	EEVHB0J470	E. CAPACITOR 6.3V 47U	2	
C33516	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33517	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C33518	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33519	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C33520	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33521	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C33522-35	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	14	
C33536	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33537-39	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C33540	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C33541, 42	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33601-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C33607	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C33701, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33703	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C33704, 05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C33706	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C33707	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C33901-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	16	
C33917	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C34101-03	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C34104	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34105, 06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C34107, 08	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C34109	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C34110	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34111, 12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C34113, 14	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C34115	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C34116	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34117, 18	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C34119	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C34120, 21	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C34122, 23	EEVHB0J330	E. CAPACITOR 6.3V 33U	2	
C34124	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C34125	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34126, 27	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C34128, 29	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C34130	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C34131	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C34133-36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C34137	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C54001, 02	EEVHB1C470	E. CAPACITOR 16V 47U	2	
C54005, 06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54008	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C54012	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C54013	ECST1AC476Z	T. CAPACITOR CH 10V 47U	1	
C54015	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C54016, 17	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54019	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C54020-23	EEVHB1C470	E. CAPACITOR 16V 47U	4	
C54101, 02	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C54103-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C54106, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54108-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C54112	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54113	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
C54114	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C54119, 20	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54122	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C54124, 25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54126	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54131, 32	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54137, 38	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C54143, 44	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54145, 46	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54147, 48	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54149	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54151, 52	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C54153-55	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C54156, 57	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54158-61	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C54162	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54163	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
C54164	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C54169, 70	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54172	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C54174, 75	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54176	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54181, 82	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54187, 88	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C54193, 94	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54195, 96	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54197, 98	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54199	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54201, 02	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C54203-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C54206, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54208-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C54212	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54213	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
C54214	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C54219, 20	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54222	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C54224, 25	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54226	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54231, 32	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C54237, 38	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C54243, 44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54245, 46	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54247, 48	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54249	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54251, 52	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C54253-55	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C54256, 57	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54258-61	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C54262	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54263	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
C54264	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C54269, 70	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54272	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C54274, 75	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54276	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54281, 82	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54287, 88	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	2	
C54293, 94	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54295, 96	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C54297, 98	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54299	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54301	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C54302	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C54303	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C54304-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	34	
C54338	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C54339-42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C54344-47	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C54348	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54349, 50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54401	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C54402	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C54403	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C54404-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	34	
C54438	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C54439-42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C54444-47	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C54448	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54450	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C54501	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C54502	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C54503	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C54504-31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	28	
C54532	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C54533, 34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54536-38	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C54539	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54540	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C54601	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C54602	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C54603	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C54604-31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	28	
C54632	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C54633, 34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C54636-38	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C54639	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C54701	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C54702	EEVHBJ330	E. CAPACITOR 6.3V 33U	1	
C54703-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C54707, 08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
D30601, 02	M1MA152K	DIODE	2	
D31401-03	MA729	DIODE	3	
D33001-03	MA729	DIODE	3	
D33501, 02	MA715	DIODE	2	
D33901-03	MA715	DIODE	3	
D34101, 02	MA701A	DIODE	2	
D54001	MA701A	DIODE	1	
D54701	MA142K	DIODE	1	
FL34101-10	VLF1016A223	FILTER	10	
FL54001, 02	VLF0931	FILTER	2	
FL54004	VLF0931	FILTER	1	
IC1	M31020EAVP	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC30001-05	TVHC244FT	IC	5	
IC30006	TC7SH32FU	IC	1	
IC30007	TVHC123FT	IC	1	
IC30008	TVHC32FT	IC	1	
IC30009	TC7SH04FU	IC	1	
IC30010-14	TVHC244FT	IC	5	
IC30151	TVHC04FT	IC	1	
IC30152	MN47V78SP	IC	1	
IC30153	T160G70-1601	IC	1	
IC30154	MN47V78SP	IC	1	
IC30251	PZ3960C7EB	IC	1	
IC30252	VSI3446	IC	1	
IC30351-53	TVHT541FT	IC	3	
IC30354, 55	HM530281-20	IC	2	
IC30356, 57	TVHC541FT	IC	2	
IC30358	TC7SH04FU	IC	1	
IC30359-62	TVHC541FT	IC	4	
IC30401-03	TVHC244FT	IC	3	
IC30404	TVHT244FT	IC	1	
IC30405	TVHC244FT	IC	1	
IC30406	TC7S08FU	IC	1	
IC30501	PZ3960C7EB	IC	1	
IC30502	VSI3445	IC	1	
IC30601	TVHC157FT	IC	1	
IC30602	DM74LS123SJ	IC	1	
IC30603	MC74HC125AF	IC	1	
IC30604	NJM082BV	IC	1	
IC30605	TVHC163FT	IC	1	
IC30606-10	TLCX244FT	IC	5	
IC30611, 12	TC7SH08FU	IC	2	
IC30701	TVHC574FT	IC	1	
IC30702	L7A1644	IC	1	
IC30801, 02	MN4707F	IC	2	
IC30901	TVHC244FT	IC	1	
IC30902	MN67373	IC	1	
IC30903	TVHC74FT	IC	1	
IC30904	MN67373	IC	1	
IC31001	L7A1645	IC	1	
IC31002	MB81V4260S7	IC	1	
IC31101	MN47V78SP	IC	1	
IC31102	TVHC244FT	IC	1	
IC31103-07	MN47V78SP	IC	5	
IC31201	TLCX125FT	IC	1	
IC31202	MB81V4260S7	IC	1	
IC31203	M65501FP	IC	1	
IC31204	TLCX125FT	IC	1	
IC31301	MB81V4260S7	IC	1	
IC31302	M65501FP	IC	1	
IC31401	TC7SH04FU	IC	1	
IC31402	TVHC74FT	IC	1	
IC31403	MC10H124M	IC	1	
IC31404, 05	TVHC74FT	IC	2	
IC31406	TVHC153FT	IC	1	
IC31407, 08	TVHC244FT	IC	2	
IC31409	XC62FP3302P	IC	1	
IC31410	TLCX244FT	IC	1	
IC31411	MN47V76SP	IC	1	
IC31412	TLCX244FT	IC	1	
IC31413	L7A1645	IC	1	
IC31414	MN47V76SP	IC	1	
IC31415	TVHC244FT	IC	1	
IC31416	TLCX244FT	IC	1	
IC31501	TC7SH32FU	IC	1	
IC31502	TLCX245FT	IC	1	
IC31503, 04	TLCX573FT	IC	2	
IC31505	TLCX138FT	IC	1	
IC31506	IDT71V321L5F	IC	1	
IC31507	TVHC08FT	IC	1	
IC31508, 09	TC7SH32FU	IC	2	
IC31601, 02	TVHC244FT	IC	2	
IC31603	TVHC157FT	IC	1	
IC31604	TVHC244FT	IC	1	
IC31701	TC7SH04FU	IC	1	
IC31702	TC7SH32FU	IC	1	
IC31703	TLCX245FT	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC31704, 05	TLCX573FT	IC	2	
IC31706	TLCX138FT	IC	1	
IC31707	IDT71V321L5F	IC	1	
IC31801	TLCX244FT	IC	1	
IC31802	MN47V76SP	IC	1	
IC31803	L7A1645	IC	1	
IC31804	MN47V76SP	IC	1	
IC31901	TLCX125FT	IC	1	
IC31902	MB81V4260S7	IC	1	
IC31903	M65501FP	IC	1	
IC32001	MB81V4260S7	IC	1	
IC32002	M65501FP	IC	1	
IC32101	L7A1645	IC	1	
IC32102	MB81V4260S7	IC	1	
IC32201, 02	MN67373	IC	2	
IC32203	TVHC244FT	IC	1	
IC32301-04	TVHC574FT	IC	4	
IC32305	L7A1644	IC	1	
IC32401, 02	MN4707F	IC	2	
IC32501	UPD65943G028	IC	1	
IC32601	TLCX574FT	IC	1	
IC32602	T203E3801AF1	IC	1	
IC32801, 02	TVHT244FT	IC	2	
IC32803, 04	TLCX244FT	IC	2	
IC32901, 02	TVHC244FT	IC	2	
IC32903	TVHC08FT	IC	1	
IC33001	THC4053FT	IC	1	
IC33002	NJM084V	IC	1	
IC33003	XC62FP3302P	IC	1	
IC33101	TC7SH04FU	IC	1	
IC33102, 03	TVHC244FT	IC	2	
IC33104	TLCX244FT	IC	1	
IC33105, 06	TLCX574FT	IC	2	
IC33107, 08	TLCX244FT	IC	2	
IC33109-12	TLCX574FT	IC	4	
IC33201	T160G70-1601	IC	1	
IC33202, 03	MN47V78SP	IC	2	
IC33204, 05	TVHC541FT	IC	2	
IC33301	TC7SH32FU	IC	1	
IC33302	UPD65944G020	IC	1	
IC33303, 04	UPD485506G25	IC	2	
IC33401, 02	TVHT541FT	IC	2	
IC33403	TC7SH04FU	IC	1	
IC33404	UPD485506G25	IC	1	
IC33405	TVHT541FT	IC	1	
IC33406	TVHT244FT	IC	1	
IC33407	TVHC541FT	IC	1	
IC33408	TVHC244FT	IC	1	
IC33501-03	TVHT541FT	IC	3	
IC33504	UPD485506G25	IC	1	
IC33505, 06	ADV7171KS	IC	2	
IC33507	AD9300KP	IC	1	
IC33508, 09	TVHC541FT	IC	2	
IC33510	NE521D	IC	1	
IC33601, 02	TVHT541FT	IC	2	
IC33603	UPD485506G25	IC	1	
IC33604, 05	TVHC541FT	IC	2	
IC33701	ADV7122KST50	IC	1	
IC33702	AD589JR	IC	1	
IC33901, 02	SN74S1051NS	IC	2	
IC33903, 04	TVHT541FT	IC	2	
IC33905-07	TVHC541FT	IC	3	
IC33908	TVHC245FT	IC	1	
IC33909	TVHC139FT	IC	1	
IC33910	TVHC245FT	IC	1	
IC33911	HD151015	IC	1	
IC33912	T163G26-1019	IC	1	
IC34101-04	XC62FP5002P	IC	4	
IC34105	XC62DN5002P	IC	1	
IC34106, 07	XC62FP2302P	IC	2	
IC54001	LT1086CM	IC	1	
IC54003	LT1129CS8	IC	1	
IC54004	LT1175CS8	IC	1	
IC54101	UPC1663G	IC	1	
IC54151	UPC1663G	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC54201	UPC1663G	IC	1	
IC54251	UPC1663G	IC	1	
IC54301	MN673796	IC	1	
IC54302	UPD65946GY00	IC	1	
IC54303	NJM084V	IC	1	
IC54304, 05	TVHC574FT	IC	2	
IC54306	TVHC244FT	IC	1	
IC54307	TC4W53FU	IC	1	
IC54401	MN673796	IC	1	
IC54402	UPD65946GY00	IC	1	
IC54403	NJM084V	IC	1	
IC54404, 05	TVHC574FT	IC	2	
IC54407	TC4W53FU	IC	1	
IC54501	MN673796	IC	1	
IC54502	NJM084V	IC	1	
IC54503	TVHC574FT	IC	1	
IC54504	TVHC244FT	IC	1	
IC54601	MN673796	IC	1	
IC54602	NJM084V	IC	1	
IC54603	TVHC574FT	IC	1	
IC54701	TC7W04FU	IC	1	
IC54702	S80727ANDQ	IC	1	
IC54703, 04	TVHC244FT	IC	2	
IC54706	TC4S69F	IC	1	
IS30252	VJS3096308	CONNECTOR (FEMALE)	1	
IS30502	VJS3096308	CONNECTOR (FEMALE)	1	
L30601-03	VLQ0319K470	COIL 47UH	3	
L33501-04	VLQ0319K220	COIL 22UH	4	
L33701	VLQ0576	COIL	1	
L33702	VLQ0319K101	COIL 100UH	1	
L34101-03	VLP0133	COIL	3	
L54001-03	ERJ14Y0R00	M. RESISTOR CH 1/4W 0	3	
L54102	VLQ0163J5R6	COIL 5.6UH	1	
L54152	VLQ0163J5R6	COIL 5.6UH	1	
L54202	VLQ0163J5R6	COIL 5.6UH	1	
L54252	VLQ0163J5R6	COIL 5.6UH	1	
P1	VJP4106A120L	CONNECTOR (MALE)	1	
P30251	VJP3950C007	CONNECTOR (MALE)	1	
P30501	VJP3950C007	CONNECTOR (MALE)	1	
P31501	VJS4106A120L	CONNECTOR (FEMALE)	1	
P31701	VJS4106A120L	CONNECTOR (FEMALE)	1	
P32701	VJS3791D024	CONNECTOR (FEMALE)	1	
P32702	VJS3791B020	CONNECTOR (FEMALE)	1	
P33701	VJP3125B014	CONNECTOR (MALE)	1	
P34201-05	VJS4313D080	CONNECTOR (FEMALE)	5	
P34206	VJP3125B014	CONNECTOR (MALE)	1	
P34207	VJP3927D012	CONNECTOR (MALE)	1	
P34208	VJP3927D008	CONNECTOR (MALE)	1	
P34301	VJS4313D080	CONNECTOR (FEMALE)	1	
P34302	VEEOK60	D1-2 CABLE	1	
P34303	VJS3406D010	CONNECTOR (FEMALE)	1	
P54001	VJS4313D080	CONNECTOR (FEMALE)	1	
Q33501-03	2SB1218A-R	TRANSISTOR	3	
Q33504	2SD1819A-R	TRANSISTOR	1	
Q33505	2SB1218A-R	TRANSISTOR	1	
Q33701-03	2SB1218A-R	TRANSISTOR	3	
Q54101	2SC3930-B	TRANSISTOR	1	
Q54102	XN6537	TRANSISTOR-RESISTOR	1	
Q54103	2SC3930-B	TRANSISTOR	1	
Q54104	XN5531	TRANSISTOR-RESISTOR	1	
Q54105	2SC3930-B	TRANSISTOR	1	
Q54107	2SA1532-B	TRANSISTOR	1	
Q54109, 10	2SD1979	TRANSISTOR	2	
Q54111, 12	2SC3935	TRANSISTOR	2	
Q54151	2SC3930-B	TRANSISTOR	1	
Q54152	XN6537	TRANSISTOR-RESISTOR	1	
Q54153	2SC3930-B	TRANSISTOR	1	
Q54154	XN5531	TRANSISTOR-RESISTOR	1	
Q54155	2SC3930-B	TRANSISTOR	1	
Q54157	2SA1532-B	TRANSISTOR	1	
Q54159, 60	2SD1979	TRANSISTOR	2	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q54161, 62	2SC3935	TRANSISTOR	2	
Q54201	2SC3930-B	TRANSISTOR	1	
Q54202	XN6537	TRANSISTOR-RESISTOR	1	
Q54203	2SC3930-B	TRANSISTOR	1	
Q54204	XN5531	TRANSISTOR-RESISTOR	1	
Q54205	2SC3930-B	TRANSISTOR	1	
Q54207	2SA1532-B	TRANSISTOR	1	
Q54209, 10	2SD1979	TRANSISTOR	2	
Q54211, 12	2SC3935	TRANSISTOR	2	
Q54251	2SC3930-B	TRANSISTOR	1	
Q54252	XN6537	TRANSISTOR-RESISTOR	1	
Q54253	2SC3930-B	TRANSISTOR	1	
Q54254	XN5531	TRANSISTOR-RESISTOR	1	
Q54255	2SC3930-B	TRANSISTOR	1	
Q54257	2SA1532-B	TRANSISTOR	1	
Q54259, 60	2SD1979	TRANSISTOR	2	
Q54261, 62	2SC3935	TRANSISTOR	2	
Q54301, 02	2SA1532-B	TRANSISTOR	2	
Q54303, 04	2SC3930-B	TRANSISTOR	2	
Q54401, 02	2SA1532-B	TRANSISTOR	2	
Q54403, 04	2SC3930-B	TRANSISTOR	2	
Q54501, 02	2SA1532-B	TRANSISTOR	2	
Q54503, 04	2SC3930-B	TRANSISTOR	2	
Q54601, 02	2SA1532-B	TRANSISTOR	2	
Q54603, 04	2SC3930-B	TRANSISTOR	2	
Q54702	2SA1532-B	TRANSISTOR	1	
R30001, 02	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30003-23	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	21	
R30024, 25	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30026-28	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R30029, 30	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R30031	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R30032	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30033	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R30034	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30035, 36	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30037-42	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R30043	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R30044-47	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R30048-52	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	5	
R30053, 54	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R30055	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30056-79	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	24	
R30080-03	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	24	
R30152-59	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	8	
R30161	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30162-68	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	7	
R30169	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30170	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R30171	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30173	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30176, 77	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30178-81	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R30185	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30186-93	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	8	
R30194	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30254, 55	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30257	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30261, 62	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R30265	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30269	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30277-80	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R30300	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30315	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30331-34	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R30348-51	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R30353, 54	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R30355	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30356	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30357, 58	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30359	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30360	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30361	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30362, 63	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R30364-69	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	6	
R30401-05	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	5	
R30406-10	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
R30411-14	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	4	
R30415, 16	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R30417-55	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	39	
R30501, 02	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30503, 04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30506, 07	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R30512	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30513	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30518	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30541-44	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R30555-57	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R30561-63	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R30564	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R30579-83	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R30596-98	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R30601	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30602, 03	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30604, 05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30606	ERJ3RED394	M. RESISTOR CH 1/16W 390K	1	
R30607	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30610	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R30611	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30612	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30613	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R30614, 15	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30616, 17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30618	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R30619	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R30620	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30621, 22	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30623	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30624-29	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R30630, 31	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30632	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30633	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30634	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30635-37	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R30638-59	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	22	
R30660	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30662, 63	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R30665	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30701	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30702	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R30703, 04	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R30705	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30706	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30707, 08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R30711	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30712	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30713-18	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R30719	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30720	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30721	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30801	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30802	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30803	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30805	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30901	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R30902-09	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R30910, 11	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R30912, 13	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R30914-17	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R30920	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30921	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30922	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30924	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30926	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R30927-29	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R30931-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R30935	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R30937	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30938	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R31001	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31002	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31003-16	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	14	
R31017	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31018, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31101	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31102	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31103	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31104	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31105	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31106	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31107-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31110	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31111	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31112, 13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31114	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31201	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31202, 03	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31204-06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31207	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31208	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31209-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31212	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31213	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31214	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31215	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31216, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31218-21	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R31222-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31226, 27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31228	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31230-32	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31233-40	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	8	
R31241, 42	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31243	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31301	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31302-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31305	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31306	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31307, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31309	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31310	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31311, 12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31313-17	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	5	
R31318	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31319	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31320, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31324-26	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31327-34	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	8	
R31335	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31336	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31401-04	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R31405, 06	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R31407-10	ERJ3RBD271	M. RESISTOR CH 1/16W 270	4	
R31411-13	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31414, 15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31416	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31417-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R31423-26	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R31427, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31429-32	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R31433, 34	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31435	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31436	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31437	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31438	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31439	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31440	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31441	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31442-44	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31445	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31446	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31447-50	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R31451, 52	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31455	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R31457	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31460, 61	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31462	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31463	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31464-69	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R31470, 71	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31472-74	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31475	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31476	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31477	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	
R31478	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31501	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31502	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31503	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31504	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31505	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31519	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31523, 24	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R31525	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31526	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31528	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31530, 31	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R31542	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31546-48	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	3	
R31549, 50	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31551, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R31553, 54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31555, 56	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R31557-60	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R31561	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31562, 63	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31564, 65	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31566, 67	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31568-71	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R31601	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31603	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31604	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31605	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31606-13	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R31614	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31615, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31617-23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	7	
R31624	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31625	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31626-28	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31629	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31632-36	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R31701	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31702	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31703-05	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	3	
R31706	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31707	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R31708	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31720	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31724	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31727, 28	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R31734	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31736	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31739-41	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	3	
R31742, 43	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31744	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31745	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31746	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R31747, 48	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31749	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31750, 51	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31752, 53	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31754, 55	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31756	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31757, 58	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R31801	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R31802	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31803	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31804	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R31805, 06	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31807	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R31808	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31809-11	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31812	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31813, 14	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31815	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31816, 17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R31818	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31819	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31820	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R31821-23	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R31824	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R31901	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31902, 03	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R31904, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31906	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R31907	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R31908	ERJ3GEYJ103	M. RESISTOR CH 1/16W 1K	1	
R31909-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31912, 13	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R31914-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31917-21	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R31922, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R31924	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R31925-27	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R31928-35	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
R32001	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32002-05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32006	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32007	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32008	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32009	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32010, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32012-17	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	6	
R32018	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32019, 20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R32022-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32025-32	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
R32033	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32101	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32102	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32103-08	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R32109	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32110, 11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R32201-05	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R32206	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32207	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32208, 09	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R32210	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32211	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32212-16	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R32217	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32218	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32219	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R32220, 21	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R32222-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32226-30	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R32231	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32301-08	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R32309-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32313	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R32314	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32315-17	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R32318, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R32320-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32323, 24	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R32325	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32326	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32327-32	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R32333	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32401	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32402	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32403	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32405	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R32503	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32505	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R32506	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32601	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R32602-05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32606, 07	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R32608	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R32801-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R32805, 06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32808, 09	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32810-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	15	
R32901-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R32904, 05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R32906	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R32907	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R32908, 09	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R32910-29	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	20	
R33001	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33002-04	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R33101, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33103	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33104, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33106-14	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	9	
R33115-18	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33119	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33120, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33122	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33123	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33124-26	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R33127, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33201	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33202	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33203, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33205, 06	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R33207, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33301	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33304	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33305	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33306	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R33307	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33308-15	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	8	
R33316	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33317-29	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	13	
R33330	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33331-45	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	15	
R33346	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33347-52	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	6	
R33401, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33403, 04	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33405, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33407	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33408, 09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33410	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33411	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33412-24	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	13	
R33501-03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R33504	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33505	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33506-08	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R33509, 10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33511-13	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R33514	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R33515, 16	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R33517	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R33518	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33519	ERJ6RBD151	M. RESISTOR CH 1/10W 150	1	
R33521	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R33522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33523-25	ERJ6RED750	M. RESISTOR CH 1/10W 75	3	
R33527	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R33529	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R33530	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R33531	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R33532	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R33533	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R33534	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R33535, 36	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33539	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33540	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R33541	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R33542, 43	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R33545	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33546, 47	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33548, 49	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33550-64	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	15	
R33565-67	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R33568	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R33569	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33571	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33572	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R33573	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33574	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R33601, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33603	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33604, 05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33606	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33607, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33609	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33610, 11	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33612	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33613	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33614-17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33618	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33619-27	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	9	
R33631-34	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R33635	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33636	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R33701	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33702	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R33703	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R33704	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33705	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R33706	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33707	ERJ3GEYJ201	M. RESISTOR CH 1/16W 200	1	
R33708	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R33709-11	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R33712-14	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R33717-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33722, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33727	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R33901	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R33902, 03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33904	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R33905, 06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R33907-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R33910, 11	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R33912, 13	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33915, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33919-22	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R33924, 25	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R33926-33	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	8	
R34101, 02	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R34201-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	9	
R34216-19	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R34301-04	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R54001	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R54002	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R54003-06	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	4	
R54101, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54103, 04	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R54105	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54106	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54107	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R54108	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54109	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R54110	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54111	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54112	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54113, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54115, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R54117, 18	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54119	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54120	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54121	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R54122	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54123	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R54125	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54127, 28	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54131	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54133	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54135	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54136, 37	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54138	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R54140	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54141	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54145	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54146	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54147	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54148	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54149	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R54151, 52	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54153, 54	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R54155	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54156	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54157	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R54158	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54159	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R54160	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54161	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54162	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54163, 64	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54165, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54167, 68	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54169	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54170	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54171	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R54172	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54173	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R54175	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54177, 78	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54181	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54183	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54185	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54186, 87	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54188	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R54190	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54191	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54195	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54196	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54197	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54198	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54199	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R54201, 02	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54203, 04	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R54205	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54206	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54207	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R54208	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54209	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R54210	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54211	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54212	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54213, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54215, 16	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54217, 18	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54219	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54220	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54221	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R54222	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54223	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R54225	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54227, 28	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54231	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54233	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54235	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R54236, 37	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54238	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R54240	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54241	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54245	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54246	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54247	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54248	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54249	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R54251, 52	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54253, 54	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R54255	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54256	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54257	ERJ3RED560	M. RESISTOR CH 1/16W 56	1	
R54258	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54259	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R54260	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54261	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R54262	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54263, 64	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54265, 66	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54267, 68	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54269	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54270	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54271	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R54272	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54273	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
R54275	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54277, 78	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54281	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54283	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54285	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54286, 87	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R54288	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R54290	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54291	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54295	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54296	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54297	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54298	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54299	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R54301, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R54303, 04	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54307	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54308	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54309	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54310	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54311	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54315, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54318	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54319	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54321	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54323	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54324	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54325	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54331	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54341-43	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R54345	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54352	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54354	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54355	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54356, 57	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54358	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54359	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54360	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R54361	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R54362, 63	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54365	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R54366	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54367	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54368	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54369, 70	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54371	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R54372	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54373	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R54374	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54375	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54376	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54377	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54378	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54379	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54380	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54381	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54382	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54383	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54384	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54385	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54386	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54387	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54388	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54389	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54390	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54391, 92	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54393, 94	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R54396	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54397-99	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R54401, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R54403, 04	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54407	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54408	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54409	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54410	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54411	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54415, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54418	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54419	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54421	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54423	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54424	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54425	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54431	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54441-43	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R54445	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54452	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54454	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54455	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54456, 57	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54458	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54459	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54460	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R54461	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R54462, 63	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54465	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R54466	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54467	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54468	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54469, 70	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54471	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R54472	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54473	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54474	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54475	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54476	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54477	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54478	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54479	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54480	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54481	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54482	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54483	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54484	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54485	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54486	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54487	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54488	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54489	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54490	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54491, 92	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54493, 94	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R54496	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R54497, 98	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R54501, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R54503, 04	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54507	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54508	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54509	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54510	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54511	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54518	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54519	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54520	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54521	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54523-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R54530, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54532	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54533, 34	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54535	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54536	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54537	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R54538	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R54539, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54542	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R54543	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54544	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54545	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54546	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R54547	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54548	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54549	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54550	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54551	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54552	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54553	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54554	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54555	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54556	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54557	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54558	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54559-62	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R54563	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54601, 02	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R54603, 04	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	2	
R54607	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54608	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54609	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54610	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54611	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54618	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R54619	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54620	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54621	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54623-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R54630, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54632	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54633, 34	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R54635	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R54636	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R54637	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R54638	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R54639, 40	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R54642	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R54643	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54644	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54645	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R54646	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R54647	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54648	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R54649	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R54650	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R54651	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R54652	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R54653	ERJ3RBD203	M. RESISTOR CH 1/16W 20K	1	
R54654	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R54655	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R54656	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R54657	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R54658	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R54659-61	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R54663	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R54701	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R54703	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54704, 05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R54706	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R54707	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R54708	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R54709	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R54710-13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R54714-19	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	6	
R54720	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
TG30001	EYF6CU	TEST POINT	1	
TG30151	EYF6CU	TEST POINT	1	
TG30901	EYF6CU	TEST POINT	1	
TG31001	EYF6CU	TEST POINT	1	
TG31401	EYF6CU	TEST POINT	1	
TG31801	EYF6CU	TEST POINT	1	
TG32101	EYF6CU	TEST POINT	1	
TG32201	EYF6CU	TEST POINT	1	
TG33201	EYF6CU	TEST POINT	1	
TG33901	EYF6CU	TEST POINT	1	
TG54001	EYF6CU	TEST POINT	1	
TG54101	EYF6CU	TEST POINT	1	
TG54201	EYF6CU	TEST POINT	1	
TP30501-04	EYF6CU	TEST POINT	4	
TP30601, 02	EYF6CU	TEST POINT	2	
TP30701	EYF6CU	TEST POINT	1	
TP30905, 06	EYF6CU	TEST POINT	2	
TP31401	EYF6CU	TEST POINT	1	
TP31801	EYF6CU	TEST POINT	1	
TP32205	EYF6CU	TEST POINT	1	
TP32210	EYF6CU	TEST POINT	1	
TP32301	EYF6CU	TEST POINT	1	
TP54101, 02	EYF6CU	TEST POINT	2	
TP54151, 52	EYF6CU	TEST POINT	2	
TP54201, 02	EYF6CU	TEST POINT	2	
TP54251, 52	EYF6CU	TEST POINT	2	
TP54307	EYF6CU	TEST POINT	1	
TP54316-23	EYF6CU	TEST POINT	8	
TP54407	EYF6CU	TEST POINT	1	
TP54416-23	EYF6CU	TEST POINT	8	
TP54502	EYF6CU	TEST POINT	1	
TP54508-12	EYF6CU	TEST POINT	5	
TP54602	EYF6CU	TEST POINT	1	
TP54608-12	EYF6CU	TEST POINT	5	
TP54701-04	EYF6CU	TEST POINT	4	
VR33501	EVM7JGA00B52	V. RESISTOR	500	1
VR33502, 03	EVM7JGA00B13	V. RESISTOR	1K	2
VR33701-03	EVM7JGA00B22	V. RESISTOR	200	3
X30601	VSX0906	CRYSTAL OSCILLATOR	1	
X31401	VSX0970	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	XC1701LPD8C	BLANK ROM	1	
	XC1701LPD8C	BLANK ROM	1	
	VEP88234U	DV UCOM P. C. BOARD	2	
	VMX2971	CARD EDGE SPACER	3	
	VMX2233	PCB SPACER	1	
	XYN26+C35	SCREW	4	
	VMS6279	SPACER	4	
	XYN26+C4FN	SCREW	4	
	VSC5076	V2 HEAT SINK	1	
	VMG1322	V2 HEAT CONDUCTIVE SHEET	1	
	XYN3+K8	SCREW	2	
	VMG1332	HEAT CONDUCTIVE SHEET (B)	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E21	VEP83475A	AUDIO PROC&SDI P.C BOARD	1	(RTL)
C3001-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C3007	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3008-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C3101	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3102-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C3105	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3106, 07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3108	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3109-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C3201, 02	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3203	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3204	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3205	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3206	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3207	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3208	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3209	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3210-15	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	6	
C3216	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3217	ECUM1H020CCN	C. CAPACITOR CH 50V 2P	1	
C3301-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C3305	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3306, 07	ECUM1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3308	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3309	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3310	EEVHP1E3R3	E. CAPACITOR CH 25V 3.3U	1	
C3311	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3312	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
C3313	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3314	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3315	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3316	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3317	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C3318	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3320	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3321	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3322, 23	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3324, 25	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
C3326	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3327	ECUX1C184KBN	C. CAPACITOR CH 16V 0.18U	1	
C3328	ECUM1E823KBN	C. CAPACITOR CH 25V 0.082U	1	
C3329	EEVHB1HR68	E. CAPACITOR CH 50V 0.68U	1	
C3330-32	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C3334-36	VCK0303K25	C. CAPACITOR 2.2U	3	
C3337	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3338	ECUX1E223KBV	C. CAPACITOR CH 25V 0.023U	1	
C3339	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3340, 41	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C3342	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3343	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3344	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C3401-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C3405	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3406-13	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C3501-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
C3601	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3602	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3603	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3604	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3605	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3606	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3607	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C3608	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C40001-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C40151-54	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C40251-60	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	10	
C40301-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C40351-56	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C40401-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C40501-12	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	12	
C40514	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40601	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C40602-08	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
C40609	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C40610	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C40611	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40612	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C40613	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C40614	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C41001-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C41051-56	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C41101-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C41151-62	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	12	
C41164	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C41251	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C41252-58	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
C41259	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C41260	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C41261	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C41262	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C41263	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C41264	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C41351-55	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C41401-05	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C41501	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C41502-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C41601	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C41602-10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	9	
C41701-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C41801-11	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	11	
C42001-04	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C42005, 06	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C42007	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C42010	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
FL3001	VLF0941C223	FILTER	1	
FL3201	VLF0941C223	FILTER	1	
FL3301	VLF1016A223	FILTER	1	
FL3601	VLF1016A223	FILTER	1	
FL41501	VLF0941C223	FILTER	1	
FL41601	VLF0941C223	FILTER	1	
FL42001	VLF1016A223	FILTER	1	
IC3001	74F244SJ	IC	1	
IC3002	TVHT244FT	IC	1	
IC3003	74F244SJ	IC	1	
IC3004, 05	74F821SC	IC	2	
IC3006, 07	TC7SH04FU	IC	2	
IC3008	TC7SH08FU	IC	1	
IC3101	TVHC74FT	IC	1	
IC3102	CG21503-131	IC	1	
IC3103	TC7SH04FU	IC	1	
IC3201	XC62FP5002P	IC	1	
IC3202	74F821SC	IC	1	
IC3203	GS9022-CPJ	IC	1	
IC3301	XC62FP5002P	IC	1	
IC3302	GS9005A-CPJ	IC	1	
IC3303	GS9010A-KC	IC	1	
IC3304	GS9000BCPJ	IC	1	
IC3305	GS9007-CKA	IC	1	
IC3401	TC7SH08FU	IC	1	
IC3402	CG31633-2131	IC	1	
IC3403	TC7SH04FU	IC	1	
IC3404	TVHC74FT	IC	1	
IC3501, 02	SN74S1051NS	IC	2	
IC3503, 04	TVHT541FT	IC	2	
IC3505, 06	TC7SH32FU	IC	2	
IC3507	HD151015	IC	1	
IC3508	TVHC138FT	IC	1	
IC40001-09	TVHC244FT	IC	9	
IC40010, 11	TVHT244FT	IC	2	
IC40151	TVHC74FT	IC	1	
IC40152	TVHC08FT	IC	1	
IC40153	TC7SH04FU	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC40154	TC7SH32FU	IC	1	
IC40251-56	TVHC157FT	IC	6	
IC40257-60	TC7W241FU	IC	4	
IC40301	UPD65944G038	IC	1	
IC40302-04	TC7SH04FU	IC	3	
IC40305, 06	MN47V76SP	IC	2	
IC40351	UPD65845G068	IC	1	
IC40352, 53	M5256DVP10VL	IC	2	
IC40401	UPD65845G068	IC	1	
IC40402, 03	M5256DVP10VL	IC	2	
IC40502	KM68V1CLT7L	IC	1	
IC40601	XC62FP5002P	IC	1	
IC40602	MC74HC4046AF	IC	1	
IC40603	NJM2904V	IC	1	
IC40604, 05	TVHC244FT	IC	2	
IC40606	TVHC74FT	IC	1	
IC40607	TVHC244FT	IC	1	
IC40608	TLCX04F	IC	1	
IC41001	UPD65944G038	IC	1	
IC41002-04	TC7SH04FU	IC	3	
IC41005, 06	MN47V76SP	IC	2	
IC41051	UPD65845G068	IC	1	
IC41052, 53	M5256DVP10VL	IC	2	
IC41101	UPD65845G068	IC	1	
IC41102, 03	M5256DVP10VL	IC	2	
IC41152	KM68V1CLT7L	IC	1	
IC41251	XC62FP5002P	IC	1	
IC41252	MC74HC4046AF	IC	1	
IC41253	TVHC244FT	IC	1	
IC41254	NJM2904V	IC	1	
IC41255, 56	TVHC244FT	IC	2	
IC41257	TVHC74FT	IC	1	
IC41258	TLCX04F	IC	1	
IC41351	UPD65840GY08	IC	1	
IC41352	MS5117805D6J	IC	1	
IC41401	TVHC157FT	IC	1	
IC41402	MB87D136APFV	IC	1	
IC41501, 02	TVHT244FT	IC	2	
IC41503	TVHC74FT	IC	1	
IC41504	TC4W53FU	IC	1	
IC41505	MB621926	IC	1	
IC41506, 07	TVHC164FT	IC	2	
IC41508	TC7SH04FU	IC	1	
IC41509	MSM514800C7J	IC	1	
IC41601, 02	TVHT244FT	IC	2	
IC41603	TVHC74FT	IC	1	
IC41604	TC4W53FU	IC	1	
IC41605	MB621926	IC	1	
IC41606, 07	TVHC164FT	IC	2	
IC41608	TC7SH04FU	IC	1	
IC41609	MSM514800C7J	IC	1	
IC41701, 02	SN74S1051NS	IC	2	
IC41703, 04	TVHC541FT	IC	2	
IC41705	TC7SH08FU	IC	1	
IC41706	TVHC245FT	IC	1	
IC41707	TVHC138FT	IC	1	
IC41708	T163G26-1019	IC	1	
IC41801, 02	SN74S1051NS	IC	2	
IC41803, 04	TVHC541FT	IC	2	
IC41805	TC7SH08FU	IC	1	
IC41806	TVHC245FT	IC	1	
IC41807	TVHC138FT	IC	1	
IC41808	T163G26-1019	IC	1	
IC42201	UPD65949G076	IC	1	
IC42301	UPD65949G076	IC	1	
J3201	VJP3461	CONNECTOR (MALE)	1	
J3301, 02	VJP3461	CONNECTOR (MALE)	2	
L3101	VLP0364	CHIP INDUCTOR	1	
L3201	VLQ0319K100	COIL 10UH	1	
L3301	VLQ0426J015	COIL 15UH	1	
L3302, 03	VLQ0319K100	COIL 10UH	2	
L3401	VLP0364	CHIP INDUCTOR	1	
L3601, 02	VLP0133	COIL	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3603	VLP0364	CHIP INDUCTOR	1	
L42001-03	VLP0133	COIL	3	
P3701	VJS4313D080	CONNECTOR (FEMALE)	1	
P3702	VJS3406D010	CONNECTOR (FEMALE)	1	
P42001, 02	VJS4313D080	CONNECTOR (FEMALE)	2	
P42003	VJS3406D012	CONNECTOR (FEMALE)	1	
P42004	VJS4313D080	CONNECTOR (FEMALE)	1	
R3001	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R3003	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3004	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3005	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3006	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R3007-12	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	6	
R3013, 14	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R3015	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3016	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3017, 18	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	
R3019-27	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	9	
R3028	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3029-31	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R3035-41	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	7	
R3042-44	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R3045, 46	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3048-58	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	11	
R3059	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3060	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3061-64	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	4	
R3101-12	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	12	
R3113-15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R3116, 17	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3118, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3120-24	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	5	
R3125, 26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3127-31	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	5	
R3132-35	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R3136	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3138, 39	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3201	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3202-11	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	10	
R3212	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R3213	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3216	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3217	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3218	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3219	ERJ6RED105	M. RESISTOR CH 1/10W 1M	1	
R3220	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R3221, 22	ERJ6RBD151	M. RESISTOR CH 1/10W 150	2	
R3223	ERJ6RED680	M. RESISTOR CH 1/10W 68	1	
R3301, 02	ERJ6RED750	M. RESISTOR CH 1/10W 75	2	
R3303	ERJ6RBD121	M. RESISTOR CH 1/10W 120	1	
R3305	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3306, 07	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	2	
R3308	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1	
R3310	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3313	ERJ3RBD104	M. RESISTOR CH 1/16W 100K	1	
R3314	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3316	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3318-21	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	4	
R3322	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R3323-26	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R3327	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3328	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3329	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3330	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3332	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R3333	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	
R3334-43	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	10	
R3344	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	
R3345-47	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	3	
R3348	ERJ6RED680	M. RESISTOR CH 1/10W 68	1	
R3401	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3402-07	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	6	
R3409, 10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3411-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R3417	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3418	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3419	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3420, 21	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3422-26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R3427-29	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R3501-06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R3507	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3508	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3509-12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	4	
R3513-16	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R3608-11	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	4	
R40001-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40004-08	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	5	
R40009, 10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40011-50	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	40	
R40051-54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R40055-57	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R40058, 59	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40060, 61	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R40062, 63	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40064-93	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	30	
R40096	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R40098-03	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R40104	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40105	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R40106, 07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40108-10	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R40111-16	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	6	
R40119	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40151, 52	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R40153, 54	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R40155, 56	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40157	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R40251-53	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40254-59	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	6	
R40260, 61	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40262-79	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	18	
R40280-84	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R40285-88	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R40289	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40301-03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40306	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40307, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40309, 10	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R40311-15	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R40316-32	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	17	
R40351, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40354, 55	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40357	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R40358	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40360	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40361	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40362	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40363	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40364	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40365	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40366	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40401	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R40402, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40405, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40408	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R40409	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40411	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40412	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40413	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40414	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40416	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40417	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40454-57	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R40517	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40526	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40527	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40528	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40601, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40604-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R40609	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40610	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R40611, 12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40613	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R40614-17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R40618	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R40620, 21	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40622-31	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
R40632	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R40633-42	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	10	
R40643	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41001, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41006	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41007, 08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41009, 10	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R41011-15	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R41016-32	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	17	
R41051, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41054, 55	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41057	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R41058	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41060	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41061	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41062	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41063	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41064	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41065	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41066	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41101	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R41102, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41105, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41108	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
R41109	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41111	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41112	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41113	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41114	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41115	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41116	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41117	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41165	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41169	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41179	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41180	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41251, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41254-56	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R41257	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R41258, 59	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41260	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41261	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R41262, 63	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41264-66	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R41267-71	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R41272	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41273	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R41274, 75	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R41278, 79	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R41280-87	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R41288	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R41289-96	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	8	
R41297	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41351	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41352-64	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	13	
R41365	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R41366-75	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	10	
R41376	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41401	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R41402-05	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	4	
R41409	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41411-17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R41419	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41421-23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R41425	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R41427	ERJ6GEYOR00	M. RESISTOR CH 1/10W	0	1
R41428-30	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	3
R41431, 32	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	2
R41433-35	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	3
R41501, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	2
R41504	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R41508	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R41509-12	ERJ3GEYJ331	M. RESISTOR CH 1/16W	330	4
R41513-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	4
R41518	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R41520	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R41601, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	2
R41604	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R41608-11	ERJ3GEYJ331	M. RESISTOR CH 1/16W	330	4
R41612-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	5
R41618	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R41620	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R41701, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	2
R41703-06	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	4
R41707-11	ERJ3GEYJ220	M. RESISTOR CH 1/16W	22	5
R41712-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	5
R41720	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R41801, 02	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	2
R41803, 04	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	2
R41805-11	ERJ3GEYJ220	M. RESISTOR CH 1/16W	22	7
R41812, 13	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	2
R41817-21	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	5
R42201, 02	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	2
R42205-07	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	3
R42209, 10	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	2
R42214-18	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	5
R42221	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1
R42231	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1
R42303	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R42305-11	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	7
R42312	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1
R42313	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R42316	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R42317	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1
R42318	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R42323	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1
R42332-34	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	3
R42336	ERJ3GEYOR00	M. RESISTOR CH 1/16W	0	1
R42337	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1
TG40001	EYF6CU	TEST POINT		1
TG40501	EYF6CU	TEST POINT		1
TG40601	EYF6CU	TEST POINT		1
TG41151	EYF6CU	TEST POINT		1
TG41251	EYF6CU	TEST POINT		1
TG41701	EYF6CU	TEST POINT		1
TG41801	EYF6CU	TEST POINT		1
TG42201	EYF6CU	TEST POINT		1
TG42301	EYF6CU	TEST POINT		1
TP3101-03	EYF6CU	TEST POINT		3
TP3201-03	EYF6CU	TEST POINT		3
TP3301, 02	EYF6CU	TEST POINT		2
TP3401-13	EYF6CU	TEST POINT		13
TP40601, 02	EYF6CU	TEST POINT		2
TP41251, 52	EYF6CU	TEST POINT		2
X40601	VSX1088	CRYSTAL OSCILLATOR		1
X41251	VSX1088	CRYSTAL OSCILLATOR		1
		MISCELLANEOUS		
	VJF0309	HOLDER		1
	VMX2233	PCB SPACER		1
	VMP6221	A/V P. C. B. HOLDER ANGLE		1
	XTV3+8F	SCREW		6

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ E22	VEP83482B	SYNC GENE P. C. BOARD	1	(RTL)
C3001	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3002	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3003	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3004, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3006, 07	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C3008	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3009	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3010	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3011	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3012	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3101	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C3102	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3103, 04	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	2	
C3105	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3106-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C3112	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3113-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3117	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3118	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3201-03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3204, 05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3206	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C3207	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3208	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C3209	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C3210	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3211	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3212, 13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3214, 15	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C3216, 17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3218	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C3219-22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3223	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C3224	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3225	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C3226, 27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3228	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3229	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3230	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3231	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C3232	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3233, 34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3235	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3236	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3237	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3238	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C3239-41	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3242	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3243	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C3244	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C3245, 46	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3247	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3248, 49	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C3252	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3254	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3301	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C3302	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3303	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3304	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3305	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3306	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3307	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3308, 09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3310	ECEV1VAN2R2	E. CAPACITOR CH 35V 2.2U	1	
C3312	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3313	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C3314	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3315	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C3316	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3317	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3318, 19	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3320	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3321, 22	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3323	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3324	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C3325-27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3328	EEVHB1C220	E. CAPACITOR 16V 22U	1	
C3329, 30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3401	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3402, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3404-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7	
C3411	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3412, 13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3414	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C3415	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3416	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3417	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3418	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3419	EEVHP1H1R0	E. CAPACITOR 50V 1U	1	
C3420	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1	
C3421-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3425	EEVHB1C220	E. CAPACITOR 16V 22U	1	
D3201	MA142WK	DIODE	1	
D3202	M1MA152K	DIODE	1	
D3301, 02	MA142K	DIODE	2	
D3303, 04	MA335-R	DIODE	2	
D3401	M1MA152K	DIODE	1	
FL3301, 02	VLF1016A223	FILTER	2	
IC3101	TVHC244FT	IC	1	
IC3102, 03	TVHC221FT	IC	2	
IC3104	UPD65650J203	IC	1	
IC3105	TVHC244FT	IC	1	
IC3106	TC7SH04FU	IC	1	
IC3201	AN91A12S	IC	1	
IC3202	THC4053FT	IC	1	
IC3203	NE521D	IC	1	
IC3204	MC74HC04AF	IC	1	
IC3205	MC74HC125AF	IC	1	
IC3206, 07	TVHC221FT	IC	2	
IC3208	TVHC157FT	IC	1	
IC3209	MC74HC04AF	IC	1	
IC3210	TVHC221FT	IC	1	
IC3211	NJM082BV	IC	1	
IC3212	TVHC221FT	IC	1	
IC3213	TVHC157FT	IC	1	
IC3214	TC7SH00FU	IC	1	
IC3301	MC14053BDT	IC	1	
IC3302	TC7SH08FU	IC	1	
IC3303	NJM082BV	IC	1	
IC3304	NE521D	IC	1	
IC3305	NJM78L09UA	IC	1	
IC3306	TC7SH00FU	IC	1	
IC3307	TVHC244FT	IC	1	
IC3401-03	TVHC574FT	IC	3	
IC3404	MC14053BDT	IC	1	
IC3405	DAC10GS	IC	1	
IC3406, 07	NJM082BV	IC	2	
IC3408	TVHC74FT	IC	1	
IC3409	TVHC244FT	IC	1	
L3101	VLQ0319K470	COIL 47UH	1	
L3201	VLQ0319K221	COIL 220UH	1	
L3202	VLQ0163J390	COIL 39UH	1	
L3203	VLQ0163J680	COIL 68UH	1	
L3204	VLQ0319K101	COIL 100UH	1	
L3205-08	VLQ0319K470	COIL 47UH	4	
L3301	VLQ0319K470	COIL 47UH	1	
L3302	VLQ0163J221	COIL 220UH	1	
L3303	VLQ0319K470	COIL 47UH	1	
L3401-03	VLQ0319K470	COIL 47UH	3	
P3002	VJS3791D024	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P3003	VJS3791B020	CONNECTOR (FEMALE)	1	
P3004	VJP3950A003	CONNECTOR (MALE)	1	
Q3301	2SB709A-R	TRANSISTOR	1	
Q3302-05	2SK608-R	TRANSISTOR	4	
R3001	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3101	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3102	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3103, 04	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3105, 06	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	2	
R3108	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R3109	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3110	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R3111	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3112, 13	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	2	
R3114	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R3115-19	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	5	
R3124-26	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R3130-32	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R3133	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3134	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3135-37	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R3138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3139-43	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	5	
R3144	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3201, 02	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3203	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R3204	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R3205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3206	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3207	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R3208-10	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	3	
R3211, 12	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3213	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3214	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3215	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
R3216	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R3217, 18	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R3220	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3221	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R3222	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3223	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3224	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3225	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3226	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3227	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3228	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R3229, 30	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3231	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3232	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3233	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3234	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3235	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R3236-39	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	4	
R3240	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R3241	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3242	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3243	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3301	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3302	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3303	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R3304	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R3305	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3306	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R3307	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R3308	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R3309	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3310	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3311	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3312	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3313	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3315	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3316	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3317	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3318	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R3319	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3320	ERJ3GEYJ822	M. RESISTOR CH 1/16W 8.2K	1	
R3321	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3322	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R3323	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3325, 26	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	2	
R3327	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3328, 29	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	2	
R3330	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3331, 32	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	2	
R3333	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3334	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	1	
R3335-37	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
R3401	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3402	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3403	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3404	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3405	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3406	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3407-10	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	4	
R3411	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R3412	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1	
R3413	ERJ3GEYJ0R00	M. RESISTOR CH 1/16W 0	1	
R3414, 15	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	2	
R3416, 17	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R3418	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3419	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R3420	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3421	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3422	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3423, 24	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R3425-27	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	3	
TG3101	EYF6CU	TEST POINT	1	
TG3201	EYF6CU	TEST POINT	1	
TG3301	EYF6CU	TEST POINT	1	
TP3101-03	EYF6CU	TEST POINT	3	
TP3201-04	EYF6CU	TEST POINT	4	
TP3301-04	EYF6CU	TEST POINT	4	
VC3301, 02	VCV0050	TRIMMER	2	
VR3101, 02	EVM7JGA00B53	V. RESISTOR 5K	2	
VR3201	EVM7JGA00B54	V. RESISTOR 50K	1	
VR3202	EVM7JGA00B14	V. RESISTOR 10K	1	
VR3203	EVM7JGA00B54	V. RESISTOR 50K	1	
VR3204	EVM7JGA00B14	V. RESISTOR 10K	1	
VR3205	EVM7JGA00B53	V. RESISTOR 5K	1	
VR3401, 02	EVM7JGA00B53	V. RESISTOR 5K	2	
X3201	VXS0567A	CRYSTAL OSCILLATOR	1	
X3301	VXS0081	CRYSTAL OSCILLATOR	1	
X3302	VXS0316	CRYSTAL OSCILLATOR	1	
X3401	VXS0788	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VMP6227	P. C. BOARD INTERLOCK ANGLE	1	
	XYN3+K8	SCREW	1	
■ E23	VEP84336B	AUDIO VIDEO P. C. BOARD	1 (RTL)	
C1001, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3401	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3402	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3403	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3404	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C3405, 06	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C3407-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3410, 11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3412-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3415	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1	
C3416	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3417	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3418	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3419	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3420	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3421	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3422	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C3423, 24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3425	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3426	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C3427	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C3428	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3429	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3430	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C3431	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3432	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3433	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3436, 37	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3438	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3439	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3440	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3444	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1	
C3445	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3446	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3447-50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3801, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3803	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3804-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3808, 09	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3810	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C3811-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3815	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C3816, 17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3818, 19	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
C3820	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3821	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C3822	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C3823	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3824	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C3825	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3826	ECEV1HN010Q	E. CAPACITOR CH 50V 1U	1	
C3827	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3829	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3830, 31	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	2	
C3832-34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3835	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3836	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3837	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3901-03	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	3	
C3904, 05	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3906, 07	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C3908-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C3912-14	ECST1CX106Z	T. CAPACITOR CH 16V 10U	3	
C3915	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3916, 17	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C3918, 19	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	2	
C3920, 21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7003	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7004	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7005	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7006	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7007	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C7008	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7009	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C7010	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7011	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7012, 13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7014	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7015	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7016, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7018	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7020	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7021	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7022	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7023, 24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7025-28	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C7029	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7030	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7031	ECEVOJV101Q	E. CAPACITOR CH6.3V 100U	1	
C7032	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C7033	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7034	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7035	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7036	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7037	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C7038	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7040	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7041	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7042, 43	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7044	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7045	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7046	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C7047	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C7048	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C7049	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7050	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7051	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7052	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C7053	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C7054	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C7055	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C7056	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7057, 58	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7059	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C7060	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7061	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C7062	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7063	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C7064, 65	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7066	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7067	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7068, 69	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C7205	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7208	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7233	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C7235	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C7301	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C7302	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C7303, 04	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	2	
C7305	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C7306-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C7316, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7318, 19	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C7320, 21	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	
C7322, 23	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C7324, 25	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
C7328, 29	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7330	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7331, 32	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C7333, 34	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C7401	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7402	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7403	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7404	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C7405	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7406	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7407	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7408, 09	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C7410, 11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7412-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C7415, 16	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C7417, 18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7419	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C7420	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7421	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C7422	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7423	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C7424	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7425	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7426	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7427	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C7428	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7429	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7430	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C7431	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C7432	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7433	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7434	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C7436	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7437	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C7438	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C7439	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7440	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7441	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C7442	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7446	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7447-50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C7601	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7602	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C7603	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C7605	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7606, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7609, 10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7612	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7613	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7614	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7615	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7616	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7617	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C7618	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7619, 20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7621	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7622, 23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7624	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7625	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7701	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7702, 03	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	2	
C7706, 07	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	2	
C7708	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7710	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7712	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C7713, 14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7716	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7718-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C7721	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C7722	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7723	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C7724, 25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7726, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7728, 29	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	2	
C7730, 31	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C7732, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7734	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7735-39	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C7801, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7803	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C7804-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C7808, 09	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C7810	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C7811-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C7815	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C7816, 17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7818, 19	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	2	
C7820	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7821	ECUX1H471JUV	C. CAPACITOR CH 50V 470P	1	
C7822	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C7823	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7824	ECEV1HNO10Q	E. CAPACITOR CH 50V 1U	1	
C7825	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7826	ECEV1HNO10Q	E. CAPACITOR CH 50V 1U	1	
C7827	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7828	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C7829	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7830, 31	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C7832, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40001, 02	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C40003, 04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40005	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40006-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C40011	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40012	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40013	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40101, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40103	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40104	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40105	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40106	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40107-10	ECEV1E330Q	E. CAPACITOR CH 25V 33U	4	
C40111-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C40114, 15	ECU1C472JB	P. CAPACITOR 16V 4700P	2	
C40116, 17	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C40118, 19	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	2	
C40120, 21	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	2	
C40122, 23	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C40124	ECEVICN100Q	E. CAPACITOR CH 16V 10U	1	
C40125, 26	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40127	ECEVICN100Q	E. CAPACITOR CH 16V 10U	1	
C40128	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C40129, 30	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C40131, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40133	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C40134, 35	ECEVICV220Q	E. CAPACITOR CH 16V 22U	2	
C40136, 37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40138, 39	ECEVICV100Q	E. CAPACITOR CH 16V 10U	2	
C40140-42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C40143	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40144	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40145	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40146	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C40147, 48	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40149, 50	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
C40151	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C40152-59	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C40160, 61	ECEVICN100Q	E. CAPACITOR CH 16V 10U	2	
C40162	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40163-67	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C40168, 69	ECEVICV470Q	E. CAPACITOR CH 16V 47U	2	
C40171	ECEVICV470Q	E. CAPACITOR CH 25V 4.7U	1	
C40172	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40173-76	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40178, 79	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40180, 81	ECEVICV470Q	E. CAPACITOR CH 16V 47U	2	
C40182	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40183	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40184	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40186-89	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40190	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40201, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40203	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C40204, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40206	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40208-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C40211	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C40212	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40213, 14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40215	ECEVOJV101Q	E. CAPACITOR CH6. 3V 100U	1	
C40217, 18	ECEVICN100Q	E. CAPACITOR CH 16V 10U	2	
C40219, 20	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C40221-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40225, 26	ECU1C472JB	P. CAPACITOR 16V 4700P	2	
C40227, 28	ECEVICN100Q	E. CAPACITOR CH 16V 10U	2	
C40229-32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40301	ECEVICV220Q	E. CAPACITOR CH 16V 22U	1	
C40304, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40308	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40309, 10	ECEVICV470Q	E. CAPACITOR CH 16V 47U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C40319-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C40325, 26	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	
C40402	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40403	ECST1ED226Z	T. CAPACITOR CH 25V 22U	1	
C40404	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40405	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40406	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C40407	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C40408	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C40409	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40410	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C40411	ECUX1H390JCV	C. CAPACITOR CH 25V 39P	1	
C40412	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C40413, 14	ECST1682JZ	P. CAPACITOR 100V 6800P	2	
C40415	ECST1ED226Z	T. CAPACITOR CH 25V 22U	1	
C40416	ECUM1H273KBN	C. CAPACITOR CH 50V 0.027U	1	
C40417	ECU1C822JB	P. CAPACITOR 16V 8200P	1	
C40418	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40419	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C40420	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40421	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C40422	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40423	ECEVOJV100Q	E. CAPACITOR CH6. 3V 10U	1	
C40424	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40425	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C40426, 27	ECST1682JZ	P. CAPACITOR 100V 6800P	2	
C40428	VCC0030	C. CAPACITOR	1	
C40429	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C40430, 31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40432	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40433, 34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40435	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C40501	ECEVICN470Q	E. CAPACITOR CH 25V 4.7U	1	
C40502, 03	ECU1C822JB	P. CAPACITOR 16V 8200P	2	
C40504, 05	ECU1C103JB5	P. CAPACITOR 16V 0.01U	2	
C40506, 07	ECU1H182JB5	P. CAPACITOR 50V 1800P	2	
C40508, 09	ECU1C103JB5	P. CAPACITOR 16V 0.01U	2	
C40510-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40514	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C40515, 16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40518	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C40519	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C40520	ECU1H102JB	P. CAPACITOR 50V 1000P	1	
C40521	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C40522-27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C40528-30	ECU1C104J	P. CAPACITOR 16V 0.1U	3	
C40531, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40533	ECU1C104J	P. CAPACITOR 16V 0.1U	1	
C40534	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C40535	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C40536	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40537	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
C40538	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C40539	ECEVICN470Q	E. CAPACITOR CH 25V 4.7U	1	
C40541, 42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40543	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40544	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C40545	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C40546	ECEVICV220Q	E. CAPACITOR CH 16V 22U	1	
C40547	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40548	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	
C40549	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C40550	ECST1VY104Z	T. CAPACITOR CH 35V 0.1U	1	
C40551	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C45012	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45013	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45101, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45103	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C45104	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45105	ECEVICV100Q	E. CAPACITOR CH 16V 10U	1	
C45106	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45107-10	ECEV1E330Q	E. CAPACITOR CH 25V 33U	4	
C45111	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45112	ECEVICV470Q	E. CAPACITOR CH 16V 47U	1	
C45113	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C45114, 15	ECHU1C472JB	P. CAPACITOR 16V 4700P	2	
C45116, 17	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C45118, 19	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	2	
C45120, 21	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	2	
C45122, 23	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2	
C45124	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C45125, 26	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45127	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C45128	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C45129, 30	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	2	
C45131, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45133	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
C45134, 35	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	2	
C45136, 37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45138, 39	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C45140, 41	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45143	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45144	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45145	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45146	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C45147, 48	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45149, 50	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
C45151	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C45152-59	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C45160, 61	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	2	
C45162	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45163-67	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C45168, 69	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
C45171	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C45172	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45173-76	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45178, 79	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45180, 81	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
C45182	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45183	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45184	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45188	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45190, 91	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45195-98	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45201, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45203	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C45204, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45206	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45208-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C45211	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C45212	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45213	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45215	ECEV0JV101Q	E. CAPACITOR CH6. 3V 100U	1	
C45217, 18	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	2	
C45219, 20	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C45221-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45225, 26	ECHU1C472JB	P. CAPACITOR 16V 4700P	2	
C45227, 28	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	2	
C45229-32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45304, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45308	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45319-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C45325, 26	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	2	
C45402	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45403	ECST1ED226Z	T. CAPACITOR CH 25V 22U	1	
C45404	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45405	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45406	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C45407	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C45408	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C45409	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45410	ECEV0JN470Q	E. CAPACITOR CH6. 3V 47U	1	
C45411	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C45412	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C45413, 14	ECBS1682JZ	P. CAPACITOR 100V 6800P	2	
C45415	ECST1ED226Z	T. CAPACITOR CH 25V 22U	1	
C45416	ECUM1H273KBN	C. CAPACITOR CH 50V 0.027U	1	
C45417	ECHU1C822JB	P. CAPACITOR 16V 8200P	1	
C45418	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45419	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C45420	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45421	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C45422	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45423	ECEV0JN100Q	E. CAPACITOR CH6. 3V 10U	1	
C45424	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45425	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C45426, 27	ECBS1682JZ	P. CAPACITOR 100V 6800P	2	
C45428	VCC0030	C. CAPACITOR	1	
C45429	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C45430, 31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45432	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45433, 34	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45435	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C45501	ECEV1EN4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C45502, 03	ECHU1C822JB	P. CAPACITOR 16V 8200P	2	
C45504, 05	ECHU1C103JB5	P. CAPACITOR 16V 0.01U	2	
C45506, 07	ECHU1H182JB5	P. CAPACITOR 50V 1800P	2	
C45508, 09	ECHU1C103JB5	P. CAPACITOR 16V 0.01U	2	
C45510-13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45514	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C45515, 16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45518	ECUM1C224KBN	C. CAPACITOR CH 16V 0.22U	1	
C45519	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C45520	ECHU1H102JB	P. CAPACITOR 50V 1000P	1	
C45521	ECUM1C394KBM	C. CAPACITOR CH 16V 0.39U	1	
C45522-27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C45528-30	ECHU1C104J	P. CAPACITOR 16V 0.1U	3	
C45531, 32	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45533	ECHU1C104J	P. CAPACITOR 16V 0.1U	1	
C45534	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C45535	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C45536	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45537	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
C45538	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C45539	ECEV1EN4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C45541, 42	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45543	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45544	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45545	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C45546	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	1	
C45547	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45548	ECEV0JV470Q	E. CAPACITOR CH6. 3V 47U	1	
C45549	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45550	ECST1VY104Z	T. CAPACITOR CH 35V 0.1U	1	
C45551	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
D3401	MA142WK	DIODE	1	
D3801	MA142WK	DIODE	1	
D3802	MA335-R	DIODE	1	
D7401	MA142WK	DIODE	1	
D7701-04	MA142WK	DIODE	4	
D7801	MA142WK	DIODE	1	
D7802	MA335-R	DIODE	1	
D7803	MA142WK	DIODE	1	
D40001-05	MA128	DIODE	5	
D40101, 02	MA142WK	DIODE	2	
D40103, 04	MA142WA	DIODE	2	
D40105-08	MA716	DIODE	4	
D40301	MA147	DIODE	1	
D40302, 03	MA142WK	DIODE	2	
D40401, 02	MA142WK	DIODE	2	
D40403	MA716	DIODE	1	
D45101, 02	MA142WK	DIODE	2	
D45103, 04	MA142WA	DIODE	2	
D45105-08	MA716	DIODE	4	
D45401, 02	MA142WK	DIODE	2	
D45403	MA716	DIODE	1	
FL1001, 02	VLF0941C223	FILTER	2	
FL3401, 02	VLF0941C223	FILTER	2	
FL3801, 02	VLF0941C223	FILTER	2	
FL3803	VLQ0415	COIL	1	
FL7001	VLF1015	FILTER	1	
FL7201	VLF1179	FILTER	1	
FL7301, 02	VLF1476	FILTER	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL7401, 02	VLF0941C223	FILTER	2	
FL7801, 02	VLF0941C223	FILTER	2	
FL7803	VLQ0415	COIL	1	
FL40001, 02	VLF0941C223	FILTER	2	
FL40401	EIR7QF012B	TRANSFORMER	1	
FL40501	VLF1069	FILTER	1	
FL45401	EIR7QF012B	TRANSFORMER	1	
FL45501	VLF1069	FILTER	1	
IC3401	MM74HC221AM	IC	1	
IC3402	TC7W04FU	IC	1	
IC3403	DM74LS221SJ	IC	1	
IC3404	TC7W74FU	IC	1	
IC3405	UPD65013BC16	IC	1	
IC3406	TC7S00FU	IC	1	
IC3407	NJM319V	IC	1	
IC3408	TC7W04FU	IC	1	
IC3409	NJM082BV	IC	1	
IC3410	MC14053BDT	IC	1	
IC3411	NJM064V	IC	1	
IC3412	XC62AP5002P	IC	1	
IC3801	TVHC00FT	IC	1	
IC3802	NJM082BV	IC	1	
IC3803, 04	DM74LS221SJ	IC	2	
IC3805	TC7S14F	IC	1	
IC3806	TVHC244FT	IC	1	
IC3807	TC7S32FU	IC	1	
IC3808	TC4W53FU	IC	1	
IC3809	TVHC74FT	IC	1	
IC3810	XC62DN5002P	IC	1	
IC3811	AN77L05M	IC	1	
IC3901	XC62AP3002P	IC	1	
IC3902, 03	UPD6456T611Y	IC	2	
IC3904	M62370GP	IC	1	
IC7001	TC7W125FU	IC	1	
IC7003	CXD2024AQ	IC	1	
IC7004	AD817AR	IC	1	
IC7005	AN77L05M	IC	1	
IC7006	CXD1176Q	IC	1	
IC7007	XC62DN5002P	IC	1	
IC7008	TC7W04FU	IC	1	
IC7009, 10	AN77L05M	IC	2	
IC7011	TC7S00FU	IC	1	
IC7206	MC14053BDT	IC	1	
IC7301	AN77L08M	IC	1	
IC7302, 03	NJM1496V	IC	2	
IC7304, 05	NJM2534V	IC	2	
IC7401, 02	TC7W04FU	IC	2	
IC7403	DM74LS221SJ	IC	1	
IC7404	MM74HC221AM	IC	1	
IC7405	TC7W74FU	IC	1	
IC7406	XC62AP5002P	IC	1	
IC7407	UPD65013BC16	IC	1	
IC7408	TC7S00FU	IC	1	
IC7409	NJM319V	IC	1	
IC7410	NJM082BV	IC	1	
IC7411	NJM064V	IC	1	
IC7412	MC14053BDT	IC	1	
IC7601	LT1228CS8	IC	1	
IC7603	AN77L05M	IC	1	
IC7604	CXD1176Q	IC	1	
IC7605	TVHC541FT	IC	1	
IC7606	NJM4556AM	IC	1	
IC7701	TC7S04FU	IC	1	
IC7702	TC7S32FU	IC	1	
IC7703, 04	LT1228CS8	IC	2	
IC7705, 06	AN77L05M	IC	2	
IC7707, 08	MB40568PF	IC	2	
IC7709, 10	TVHC541FT	IC	2	
IC7711, 12	NJM4556AM	IC	2	
IC7801	TVHC00FT	IC	1	
IC7802	TVHC74FT	IC	1	
IC7803, 04	DM74LS221SJ	IC	2	
IC7805	TC7S14F	IC	1	
IC7806	TVHC244FT	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC7807	TC7S32FU	IC	1	
IC7808	TC4W53FU	IC	1	
IC7809	NJM082BV	IC	1	
IC40001	LVX3245QSC	IC	1	
IC40002, 03	TVHT541FT	IC	2	
IC40004	TVHC139FT	IC	1	
IC40005	TE7751	IC	1	
IC40101	UPC5204GC041	IC	1	
IC40102	TA75W558FU	IC	1	
IC40103	AD7945BR	IC	1	
IC40104	TA75W558FU	IC	1	
IC40105	AD7945BR	IC	1	
IC40106	AK5340VS	IC	1	
IC40107	TVHT541FT	IC	1	
IC40108	AN77L05M	IC	1	
IC40109, 10	NJM78L09UA	IC	2	
IC40111	AN78L07M	IC	1	
IC40112	NJM79L09UA	IC	1	
IC40113	AN79L07M	IC	1	
IC40114, 15	TA75W558FU	IC	2	
IC40116	MC14053BDT	IC	1	
IC40117, 18	UPD4052BG	IC	2	
IC40119	MC14053BDT	IC	1	
IC40120	NJM79L09UA	IC	1	
IC40201	AN77L05M	IC	1	
IC40202	AK4320VM	IC	1	
IC40203	TVHT541FT	IC	1	
IC40204, 05	TA75W558FU	IC	2	
IC40206, 07	TC4W53FU	IC	2	
IC40301	TA75W558FU	IC	1	
IC40303	UPD4052BG	IC	1	
IC40305	TA75W558FU	IC	1	
IC40307	UPD4052BG	IC	1	
IC40310	AN77L05M	IC	1	
IC40311	XC62DN5002M	IC	1	
IC40401	TA75W558FU	IC	1	
IC40402	NJM78L05UA	IC	1	
IC40403	NJM79L05UA	IC	1	
IC40501, 02	TA75W558FU	IC	2	
IC40503	MC14053BDT	IC	1	
IC40504-06	TA75W558FU	IC	3	
IC40507	TC4W53FU	IC	1	
IC40508	CXA1552M	IC	1	
IC40509	UPD4052BG	IC	1	
IC40510	TA75W558FU	IC	1	
IC45005	TE7751	IC	1	
IC45101	UPC5204GC041	IC	1	
IC45102	TA75W558FU	IC	1	
IC45103	AD7945BR	IC	1	
IC45104	TA75W558FU	IC	1	
IC45105	AD7945BR	IC	1	
IC45106	AK5340VS	IC	1	
IC45107	TVHT541FT	IC	1	
IC45108	AN77L05M	IC	1	
IC45109, 10	NJM78L09UA	IC	2	
IC45111	AN78L07M	IC	1	
IC45112	NJM79L09UA	IC	1	
IC45113	AN79L07M	IC	1	
IC45114, 15	TA75W558FU	IC	2	
IC45116	TC4W53FU	IC	1	
IC45117, 18	UPD4052BG	IC	2	
IC45119	MC14053BDT	IC	1	
IC45122	NJM79L09UA	IC	1	
IC45201	AN77L05M	IC	1	
IC45202	AK4320VM	IC	1	
IC45203	TVHT541FT	IC	1	
IC45204, 05	TA75W558FU	IC	2	
IC45206, 07	TC4W53FU	IC	2	
IC45301	TA75W558FU	IC	1	
IC45303	UPD4052BG	IC	1	
IC45305	TA75W558FU	IC	1	
IC45307	UPD4052BG	IC	1	
IC45310	AN77L05M	IC	1	
IC45311	XC62DN5002M	IC	1	
IC45401	TA75W558FU	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC45402	NJM78L05UA	IC	1	
IC45403	NJM79L05UA	IC	1	
IC45501, 02	TA75W58FU	IC	2	
IC45503	MC14053BDT	IC	1	
IC45504-06	TA75W58FU	IC	3	
IC45507	TC4W53FU	IC	1	
IC45508	CXA1552M	IC	1	
IC45509	UPD4052BG	IC	1	
IC45510	TA75W58FU	IC	1	
L3401-03	VLQ0319K101	COIL	100UH	3
L3404	VLQ0426J470	COIL	47UH	1
L3405	VLQ0319K101	COIL	100UH	1
L3801	VLQ0163J3R3	COIL	3.3UH	1
L3901, 02	VLQ0426J270	COIL	27UH	2
L3903, 04	VLQ0426J680	COIL	68UH	2
L7001-03	VLQ0319K101	COIL	100UH	3
L7005	VLQ0319K470	COIL	47UH	1
L7008	VLQ0426J180	COIL	18UH	1
L7009	VLQ0426J220	COIL	22UH	1
L7010	VLQ0426J180	COIL	18UH	1
L7011	VLQ0426J220	COIL	22UH	1
L7012	VLQ0426J5R6	COIL	5.6UH	1
L7301, 02	VLQ0319K101	COIL	100UH	2
L7303, 04	VLQ0426J680	COIL	68UH	2
L7401-03	VLQ0319K101	COIL	100UH	3
L7404	VLQ0426J470	COIL	47UH	1
L7405	VLQ0319K101	COIL	100UH	1
L7601	VLQ0426J180	COIL	18UH	1
L7602	VLQ0319K101	COIL	100UH	1
L7703	VLQ0319K101	COIL	100UH	1
L7801	VLQ0163J3R3	COIL	3.3UH	1
L40101	VLQ0163J100	COIL	10UH	1
L40201	VLQ0163J100	COIL	10UH	1
L40401	VLQ0423J472	COIL	4700UH	1
L40402	VLQ0651K391	COIL	390UH	1
L45101	VLQ0163J100	COIL	10UH	1
L45201	VLQ0163J100	COIL	10UH	1
L45401	VLQ0423J472	COIL	4700UH	1
L45402	VLQ0651K391	COIL	390UH	1
P1001, 02	VJS4313D080	CONNECTOR (FEMALE)		2
P1003, 04	VJP3950A009	CONNECTOR (MALE)		2
P1005	VJS3801B050	CONNECTOR (FEMALE)		1
P1006	VJS4313D080	CONNECTOR (FEMALE)		1
P1008	VJS3791B013	CONNECTOR (FEMALE)		1
P1009	VJS3406D012	CONNECTOR (FEMALE)		1
P1010	VJS3826A010	CONNECTOR (FEMALE)		1
P1011, 12	VJS3826C050	CONNECTOR (FEMALE)		2
P1013, 14	VJS3826A040	CONNECTOR (FEMALE)		2
P1015	VJP3950C004	CONNECTOR (MALE)		1
Q1001	2SB1218A-R	TRANSISTOR		1
Q3401	2SC3931-C	TRANSISTOR		1
Q3402, 03	2SD1819A-R	TRANSISTOR		2
Q3801	2SC3938-R	TRANSISTOR		1
Q3802, 03	2SA1532-B	TRANSISTOR		2
Q3804	2SC3938-R	TRANSISTOR		1
Q3901, 02	2SB1218A-R	TRANSISTOR		2
Q7001	2SB1218A-R	TRANSISTOR		1
Q7002	XN4601	TRANSISTOR-RESISTOR		1
Q7003	2SC3930-B	TRANSISTOR		1
Q7004	2SD1819A-R	TRANSISTOR		1
Q7005	2SC3930-B	TRANSISTOR		1
Q7006, 07	2SB1218A-R	TRANSISTOR		2
Q7008	2SC3930-B	TRANSISTOR		1
Q7009	2SB1218A-R	TRANSISTOR		1
Q7203	2SD1819A-R	TRANSISTOR		1
Q7204	2SA1532-B	TRANSISTOR		1
Q7205, 06	2SD1819A-R	TRANSISTOR		2
Q7301, 02	XN4601	TRANSISTOR-RESISTOR		2
Q7303-06	2SD1819A-R	TRANSISTOR		4
Q7307-10	2SB1218A-R	TRANSISTOR		4
Q7311, 12	2SD1819A-R	TRANSISTOR		2
Q7313, 14	2SA1532-B	TRANSISTOR		2

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q7315, 16	2SB1218A-R	TRANSISTOR		2
Q7401	2SC3931-C	TRANSISTOR		1
Q7402, 03	2SD1819A-R	TRANSISTOR		2
Q7601	2SA1532-B	TRANSISTOR		1
Q7602	2SD1979	TRANSISTOR		1
Q7701	2SA1532-B	TRANSISTOR		1
Q7702, 03	2SD1979	TRANSISTOR		2
Q7704	2SD1819A-R	TRANSISTOR		1
Q7801	2SC3938-R	TRANSISTOR		1
Q7802, 03	2SA1532-B	TRANSISTOR		2
Q7804	2SC3938-R	TRANSISTOR		1
Q40101, 02	2SD1979	TRANSISTOR		2
Q40201, 02	2SD1979	TRANSISTOR		2
Q40203, 04	2SK198-R	TRANSISTOR		2
Q40301-04	2SB1219A-R	TRANSISTOR		4
Q40401	2SB779-R	TRANSISTOR		1
Q40402	2SD1819A-R	TRANSISTOR		1
Q40403, 04	2SD1979	TRANSISTOR		2
Q40405	2SD874-R	TRANSISTOR		1
Q40406	2SD1979	TRANSISTOR		1
Q40407	2SB779-R	TRANSISTOR		1
Q40408	2SD1819A-R	TRANSISTOR		1
Q40409	2SD874-R	TRANSISTOR		1
Q40410	2SB1220-R	TRANSISTOR		1
Q40411, 12	2SD1821-R	TRANSISTOR		2
Q45101, 02	2SD1979	TRANSISTOR		2
Q45201, 02	2SD1979	TRANSISTOR		2
Q45203, 04	2SK198-R	TRANSISTOR		2
Q45303	2SB1219A-R	TRANSISTOR		1
Q45401	2SB779-R	TRANSISTOR		1
Q45402	2SD1819A-R	TRANSISTOR		1
Q45403, 04	2SD1979	TRANSISTOR		2
Q45405	2SD874-R	TRANSISTOR		1
Q45406	2SD1979	TRANSISTOR		1
Q45407	2SB779-R	TRANSISTOR		1
Q45408	2SD1819A-R	TRANSISTOR		1
Q45409	2SD874-R	TRANSISTOR		1
Q45410	2SB1220-R	TRANSISTOR		1
Q45411, 12	2SD1821-R	TRANSISTOR		2
QR7001	UN5213	TRANSISTOR-RESISTOR		1
QR7301, 02	UN5213	TRANSISTOR-RESISTOR		2
QR40001-04	UN5213	TRANSISTOR-RESISTOR		4
QR40101	UN5213	TRANSISTOR-RESISTOR		1
QR40102	UN5113	TRANSISTOR-RESISTOR		1
QR40103	UN5213	TRANSISTOR-RESISTOR		1
QR40104	UN5113	TRANSISTOR-RESISTOR		1
QR40201-03	UN5213	TRANSISTOR-RESISTOR		3
QR40204-06	UN5113	TRANSISTOR-RESISTOR		3
QR40207	UN5213	TRANSISTOR-RESISTOR		1
QR40301, 02	UN5213	TRANSISTOR-RESISTOR		2
QR40401	UN5113	TRANSISTOR-RESISTOR		1
QR40402	UN5213	TRANSISTOR-RESISTOR		1
QR40403, 04	UN5113	TRANSISTOR-RESISTOR		2
QR40405	UN5213	TRANSISTOR-RESISTOR		1
QR40501	UN5213	TRANSISTOR-RESISTOR		1
QR40503	UN5113	TRANSISTOR-RESISTOR		1
QR40505	UN5213	TRANSISTOR-RESISTOR		1
QR45001-05	UN5213	TRANSISTOR-RESISTOR		5
QR45101	UN5213	TRANSISTOR-RESISTOR		1
QR45102	UN5113	TRANSISTOR-RESISTOR		1
QR45103	UN5213	TRANSISTOR-RESISTOR		1
QR45104	UN5113	TRANSISTOR-RESISTOR		1
QR45201-03	UN5213	TRANSISTOR-RESISTOR		3
QR45204, 05	UN5113	TRANSISTOR-RESISTOR		2
QR45206	UN5213	TRANSISTOR-RESISTOR		1
QR45207	UN5113	TRANSISTOR-RESISTOR		1
QR45301	UN5213	TRANSISTOR-RESISTOR		1
QR45401	UN5113	TRANSISTOR-RESISTOR		1
QR45402	UN5213	TRANSISTOR-RESISTOR		1
QR45403, 04	UN5113	TRANSISTOR-RESISTOR		2
QR45405	UN5213	TRANSISTOR-RESISTOR		1
QR45501	UN5213	TRANSISTOR-RESISTOR		1
QR45503	UN5113	TRANSISTOR-RESISTOR		1
QR45505	UN5213	TRANSISTOR-RESISTOR		1



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1001	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1003	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R1005, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1009, 10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R1011	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R1012, 13	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R3401, 02	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3403	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3404	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3406	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R3408	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3409	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R3410, 11	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3412	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3414	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R3415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3416	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3417	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R3418	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R3419	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R3420	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3421	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3422	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R3423	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R3424	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3425	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3426	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3427	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3429	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3430	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3431	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3432	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3433, 34	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3439	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3442, 43	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3444	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R3445	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3446	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3448	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3450	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3452	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3453	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3454, 55	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3456-58	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	3	
R3460	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3461	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R3462	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3463	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3464	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R3466	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3801	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R3802	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3803	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3804	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3805	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3806	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3807	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3808	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3811	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3812, 13	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3814	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3815	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R3817	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3818, 19	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3820	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R3821	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3822, 23	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	
R3824	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R3825	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R3826	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3828	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R3830	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3831, 32	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R3833	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3834, 35	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3836	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3837-42	ERJ3RED470	M. RESISTOR CH 1/16W 47	6	
R3901-11	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	11	
R3912-14	ERJ3RBD101	M. RESISTOR CH 1/16W 100	3	
R3915, 16	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R3917	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3919-22	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R3923, 24	ERJ3RBD271	M. RESISTOR CH 1/16W 270	2	
R3925, 26	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R3927, 28	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R7001	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7002	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7003	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R7004	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7005	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7006	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R7007	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7010	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7011	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7012	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7014	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7015	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7017	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7019	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7020	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7021, 22	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7023	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7024	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7026	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7027-29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R7031	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7032	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R7033	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R7034	ERJ3RED270	M. RESISTOR CH 1/16W 27	1	
R7035	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7036	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7037	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7038	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7039	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7040	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7041	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R7042	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7044	VRE006610102	M. RESISTOR CH 1/10W 1K	1	
R7045	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7046	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7047	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7048	ERJ6RBD221	M. RESISTOR CH 1/10W 220	1	
R7049	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7050	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7051	ERJ6RBD221	M. RESISTOR CH 1/10W 220	1	
R7052	ERJ3RED750	M. RESISTOR CH 1/16W 75	1	
R7055	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7056	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7057	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R7058	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R7059	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7060	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7061	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R7062	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R7063	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7064	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7066	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R7067	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7068	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7069, 70	ERJ3RBD681	M. RESISTOR CH 1/16W 680	2	
R7071	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7075	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7080	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7082	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7084	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7085, 86	ERJ3RBD681	M. RESISTOR CH 1/16W 680	2	
R7087, 88	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7089	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7090	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7094-96	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R7098	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7099	VRE006622102	V. RESISTOR CH 1/10W 1K	1	
R7100	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7217	ERJ3RBD470	M. RESISTOR CH 1/16W 47	1	
R7219	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7221, 22	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R7225, 26	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	2	
R7227	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R7233	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7234	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7239	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R7242	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7244	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7246	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7301	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7302, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7304-07	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R7308, 09	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	2	
R7310, 11	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7312	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R7313	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7314, 15	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R7316, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7318, 19	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	2	
R7320, 21	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	2	
R7322, 23	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7324-27	ERJ3RBD101	M. RESISTOR CH 1/16W 100	4	
R7328, 29	ERJ3RBD821	M. RESISTOR CH 1/16W 820	2	
R7330, 31	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R7332, 33	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7334, 35	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7336, 37	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	2	
R7338, 39	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R7340	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7341	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7342	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7343	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7344, 45	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R7346-49	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R7350-53	ERJ3RED470	M. RESISTOR CH 1/16W 47	4	
R7354, 55	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7356-59	ERJ3RBD681	M. RESISTOR CH 1/16W 680	4	
R7360-63	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R7364	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R7365	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R7366, 67	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7368, 69	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7401, 02	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R7403	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7404	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R7405	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R7406	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R7408	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7409	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7411	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7412	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7414	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R7415	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7416	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7417	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R7418	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R7419	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7420	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7421	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7422	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7423	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7424	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7425	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R7426	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R7427	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7428	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7430	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7431	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7432	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7433-35	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R7437	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7441	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7442	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7443	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7444	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7445	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7446	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1	
R7447	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7449	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7450	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7452	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7453	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7455	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7456	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R7458	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7459	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R7460-62	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	3	
R7463	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R7464	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7465	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7466	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7601	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7604, 05	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R7606	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R7608	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R7609	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R7610	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7614	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R7615	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R7616	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7617	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7619	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7620	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R7621	ERJ3RED750	M. RESISTOR CH 1/16W 75	1	
R7622	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7626	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7627	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7628	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7629	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7630-37	ERJ3RBD101	M. RESISTOR CH 1/16W 100	8	
R7701	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7703, 04	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R7705, 06	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R7709, 10	ERJ3RBD561	M. RESISTOR CH 1/16W 560	2	
R7711	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7714, 15	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R7716, 17	ERJ3RBD221	M. RESISTOR CH 1/16W 220	2	
R7718, 19	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7722, 23	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	2	
R7724, 25	ERJ3RED750	M. RESISTOR CH 1/16W 75	2	
R7726	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R7727	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7729	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R7730	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7734, 35	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R7736	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7737	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7738	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7739	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7740, 41	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R7742	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7743	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7744	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7745	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7746-61	ERJ3RBD101	M. RESISTOR CH 1/16W 100	16	
R7763	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7765	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7766	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7801	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7802	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7803	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7804	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7805	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7806	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7807	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7808	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7811	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R7812, 13	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R7814	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7815	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R7817	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R7818, 19	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R7820	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R7821	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7822, 23	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	
R7824	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7825	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R7826	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7827	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R7828	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R7830	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R7831, 32	ERJ3RBD683	M. RESISTOR CH 1/16W 6.8K	2	
R7833	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7834, 35	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R7836	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R7837-42	ERJ3RED470	M. RESISTOR CH 1/16W 47	6	
R40001-04	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R40005-12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	8	
R40013	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40101	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40102, 03	ERJ12YJ621	M. RESISTOR CH 1/2W 620	2	
R40104	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40105	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40106	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R40107	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40108	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40109	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R40110-12	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R40113, 14	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	2	
R40115	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40116	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40117, 18	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R40119	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40120	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40121, 22	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R40123	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40124-27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R40128	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40129	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40130-33	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R40134	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40135	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R40136	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40137	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R40138	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R40139	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40140	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R40141, 42	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40143, 44	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	2	
R40145-48	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R40149-52	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R40155, 56	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40157	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40159-62	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R40168	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40173	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40174	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R40175	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R40176, 77	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R40180	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R40181	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R40182	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R40183	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R40184	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40185	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R40186	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R40188	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40204	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40206-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R40209-12	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
R40213	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40215	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40216	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40217	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40219, 20	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R40222, 23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40224-27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R40228, 29	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	2	
R40230, 31	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R40232, 33	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	2	
R40234, 35	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	2	
R40236, 37	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40238	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40239	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40240	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40241	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40242	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40243	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40244, 45	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	2	
R40246, 47	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R40248, 49	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R40250, 51	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40252	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R40253	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40254	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R40255	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40256	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40257	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40258	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40259	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40260	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R40261	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40262	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40263	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40264, 65	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40266	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R40301	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40302	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40304, 05	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40307	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40309	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R40310	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40312	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40313	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40315, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40317	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40318	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40319-21	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	3	
R40322	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1	
R40323	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R40324	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R40325	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1	
R40326	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R40327	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R40328, 29	ERJ3RBD752	M. RESISTOR CH 1/16W 7.5K	2	
R40330	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40331	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R40332	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40333	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R40334, 35	ERJ3RBD752	M. RESISTOR CH 1/16W 7.5K	2	
R40336, 37	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R40338, 39	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40340, 41	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	2	
R40343	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40345	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40401	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40403	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40404	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40405	ERJ3RED100	M. RESISTOR CH 1/16W 10	1	
R40406	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40407	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40408	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40409	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40410	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1	
R40411	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R40412	ERJ3RED390	M. RESISTOR CH 1/16W 39	1	
R40413	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40414	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R40415	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40416	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R40417	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40418	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R40419, 20	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R40421	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R40422	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40423	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40424	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40427	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40428	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40429	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1	
R40430	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R40431	ERJ3RED390	M. RESISTOR CH 1/16W 39	1	
R40432	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40433	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R40434	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R40435	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40436	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R40437	ERJ6GEYJ201	M. RESISTOR CH 1/10W 200	1	
R40438	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40442	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R40501	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40502	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R40503	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40504	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R40505	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40506	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40507	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40508	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40509	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40510	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40511	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40513	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40515	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40516	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40517	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R40519	ERJ3RBD223	M. RESISTOR CH 1/16W 2.2K	1	
R40520	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40521	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40523-25	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R40526	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R40527	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R40528	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40529	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R40530	ERJ3RBD823	M. RESISTOR CH 1/16W 82K	1	
R40532	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R40533	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40534	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R40535, 36	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R40537	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R40538-40	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R40542	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40543	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40544	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40546, 47	ERJ3RBD471	M. RESISTOR CH 1/16W 470	2	
R40548	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40549	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R40550	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R40551	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40552	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40554	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45005-12	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	8	
R45013	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45101	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45102, 03	ERJ12YJ621	M. RESISTOR CH 1/2W 620	2	
R45104	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45105	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45106	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R45107	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45108	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45109	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R45110-12	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R45113, 14	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	2	
R45115	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45116	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45117, 18	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R45119	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45120	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45121, 22	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R45123	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45124-27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R45128	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45129	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45130-33	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R45134	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45135	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R45136	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45137	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R45138	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R45139	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45140	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R45141, 42	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45143, 44	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	2	
R45145-48	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R45149-52	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R45155, 56	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45157	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45159-62	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R45168	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45173	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45174	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45175	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45181	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45184	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R45185	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R45186	ERJ3RBD202	M. RESISTOR CH 1/16W 2K	1	
R45187	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R45189	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45190	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R45191	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R45192	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R45193	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R45204	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45206-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R45209-12	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
R45213	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45215	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45217	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45219, 20	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R45222, 23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45224-27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R45228, 29	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	2	
R45230, 31	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R45232, 33	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	2	
R45234, 35	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	2	
R45236, 37	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45238	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45239	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45240	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45241	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45242	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45243	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45244, 45	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	2	
R45246, 47	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R45248, 49	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R45250, 51	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R45252	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45253	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45254	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R45255	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45256	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R45257	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45258	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R45259	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45260, 61	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45262	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R45263, 64	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R45265, 66	ERJ3RBD391	M. RESISTOR CH 1/16W 390	2	
R45304	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45307	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45309	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R45310	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45315, 16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R45317	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45318	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45320	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45322	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1	
R45323	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R45324	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R45325	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1	
R45326	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R45327	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R45328, 29	ERJ3RBD752	M. RESISTOR CH 1/16W 7.5K	2	
R45330	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45331	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R45332	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45333	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R45334, 35	ERJ3RBD752	M. RESISTOR CH 1/16W 7.5K	2	
R45336, 37	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R45338, 39	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45340, 41	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	2	
R45343	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45345	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45401	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45403	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45404	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R45405	ERJ3RED100	M. RESISTOR CH 1/16W 10	1	
R45406	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45407	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45408	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45409	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45410	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1	
R45411	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R45412	ERJ3RED390	M. RESISTOR CH 1/16W 39	1	
R45413	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45414	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R45415	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45416	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	
R45417	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45418	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R45419, 20	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R45421	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R45422	ERJ3RBD560	M. RESISTOR CH 1/16W 560	1	
R45423	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45424	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45427	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45428	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45429	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	1	
R45430	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R45431	ERJ3RED390	M. RESISTOR CH 1/16W 39	1	
R45432	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45433	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
R45434	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R45435	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45436	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R45437	ERJ6GEYJ201	M. RESISTOR CH 1/10W 200	1	
R45438	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45442	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R45501	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45502	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R45503	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45504	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R45505	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45506	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45507	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45508	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45509	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45510	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R45511	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45513	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45515	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45516	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45517	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R45519	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45520	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45521	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R45522	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45523-25	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R45526	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R45527	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R45528	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45529	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R45530	ERJ3RBD823	M. RESISTOR CH 1/16W 82K	1	
R45532	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1	
R45533	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45534	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R45535, 36	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R45537	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R45538-40	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R45542	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45543	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45544	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45546, 47	ERJ3RBD471	M. RESISTOR CH 1/16W 470	2	
R45548	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45549	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R45550	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R45551	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45552	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45554	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
SW40101, 02	VSS0126	SWITCH	2	
SW45101, 02	VSS0126	SWITCH	2	
T40401, 02	VLT0729	TRANSFORMER	2	
T45401, 02	VLT0729	TRANSFORMER	2	
TG3402	EYF6CU	TEST POINT	1	
TG3801	EYF6CU	TEST POINT	1	
TG7001	EYF6CU	TEST POINT	1	
TG7301	EYF6CU	TEST POINT	1	
TG7402	EYF6CU	TEST POINT	1	
TG7801	EYF6CU	TEST POINT	1	
TG40101	EYF6CU	TEST POINT	1	
TG40201	EYF6CU	TEST POINT	1	
TG40301	EYF6CU	TEST POINT	1	
TG40501	EYF6CU	TEST POINT	1	
TG45101	EYF6CU	TEST POINT	1	
TG45201	EYF6CU	TEST POINT	1	
TG45301	EYF6CU	TEST POINT	1	
TG45501	EYF6CU	TEST POINT	1	
TP3401-06	EYF6CU	TEST POINT	6	
TP3802, 03	EYF6CU	TEST POINT	2	
TP3901-05	EYF6CU	TEST POINT	5	
TP7401	EYF6CU	TEST POINT	1	
TP7403-07	EYF6CU	TEST POINT	5	
TP7601	EYF6CU	TEST POINT	1	
TP7701, 02	EYF6CU	TEST POINT	2	
TP7802, 03	EYF6CU	TEST POINT	2	
TP40101-06	EYF6CU	TEST POINT	6	
TP40201-04	EYF6CU	TEST POINT	4	
TP40301, 02	EYF6CU	TEST POINT	2	
TP40401-03	EYF6CU	TEST POINT	3	
TP40501	EYF6CU	TEST POINT	1	
TP45101-05	EYF6CU	TEST POINT	5	
TP45107, 08	EYF6CU	TEST POINT	2	
TP45201-04	EYF6CU	TEST POINT	4	
TP45301, 02	EYF6CU	TEST POINT	2	
TP45401-03	EYF6CU	TEST POINT	3	
TP45501	EYF6CU	TEST POINT	1	
VC3901, 02	VCV0050	TRIMMER	2	







Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R42101-04	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R42105	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R42106	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42107	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R42108	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42109, 10	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R42111-18	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	8	
R42119	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R42120, 21	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R42122	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R42123, 24	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R42125-28	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	4	
R42131, 32	ERJ14YJ220	M. RESISTOR CH 1/4W 22	2	
R42133, 34	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R42135, 36	ERJ14YJ220	M. RESISTOR CH 1/4W 22	2	
R42137, 38	ERJ3RED150	M. RESISTOR CH 1/16W 15	2	
R42139-42	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R42143-46	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	4	
R42147-50	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R42151, 52	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R42201, 02	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R42203	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R42204	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42205	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R42207-09	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R42210, 11	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R42214	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R42215	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R42216	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R42217	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R42219	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R42220	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R42221	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42222	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R42225	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R42226, 27	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R42228	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R42229, 30	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	2	
R42231, 32	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R42233	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R42234	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R42235	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R42236	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R42237	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R42238, 39	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R42240	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R42241	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R42242, 43	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R42244	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R42245	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R42246, 47	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R42248, 49	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	2	
R42250	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R42251	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R42252	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R42253, 54	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R42255	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R42256-60	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	5	
R42301-03	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
R42305-07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R42308	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R42309-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
RY42101-04	AQV212SX	IC	4	
RY42201	VSY2176	RELAY	1	
SW42201	VSS0367-02B	SWITCH	1	
TG42003	EYF6CU	TEST POINT	1	
TG42206	EYF6CU	TEST POINT	1	
TP42001, 02	EYF6CU	TEST POINT	2	
TP42201-05	EYF6CU	TEST POINT	5	
VR42101, 02	VRV0161B501	V. RESISTOR 500	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
VR42201, 02	VRV0161B502	V. RESISTOR 5K	2	
■ E25	VEP84338A	MIC AMP P. C. BOARD	1 (RTL)	
C4001, 02	EEVHBOJ470	E. CAPACITOR 6.3V 47U	2	
C4003, 04	EEVHP1C100	E. CAPACITOR 16V 10U	2	
C4005	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C4006, 07	ECUM1H681KBN	MKR (ECUV1H681KBN)	2	
C4008-10	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	3	
C4011	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C4012, 13	ECUM1H681KBN	MKR (ECUV1H681KBN)	2	
C4014, 15	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C4016	EEVHBOJ470	E. CAPACITOR 6.3V 47U	1	
C4017, 18	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C4019	EEVHBOJ470	E. CAPACITOR 6.3V 47U	1	
C4022, 23	EEVHBOJ470	E. CAPACITOR 6.3V 47U	2	
D4001	MA152WK	DIODE	1	
D4002	MA151WK	DIODE	1	
D4003	MA152WA	DIODE	1	
D4004	MA716	DIODE	1	
FL4001, 02	VLF0941C223	FILTER	2	
IC4001	NJM2122M	IC	1	
IC4002	NJM4580ED	IC	1	
IC4003	AN77L05M	IC	1	
IC4004	XC62DN5002M	IC	1	
P4001	VJP4329A040	CONNECTOR (MALE)	1	
P4002	VJP4329A030	CONNECTOR (MALE)	1	
P4003	VJP4329A040	CONNECTOR (MALE)	1	
P4004, 05	VJS3826C050	CONNECTOR (FEMALE)	2	
P4006	VJS3826A013	CONNECTOR (FEMALE)	1	
P4007	VJS3826C016	CONNECTOR (FEMALE)	1	
P4008, 09	VJP1243T	CONNECTOR (MALE) 3P	2	
P4010	VJP1231T	CONNECTOR (MALE) 4P	1	
Q4001	2SD1819A-R	TRANSISTOR	1	
Q4002	2SB1219A-R	TRANSISTOR	1	
R4001	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4002	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R4003	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R4004	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1	
R4005, 06	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R4007, 08	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	2	
R4009	ERJ6RED430	M. RESISTOR CH 1/10W 43	1	
R4010-15	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	6	
R4016, 17	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	2	
R4018	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R4021, 22	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R4024-26	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
RY4001	VSY2176	RELAY	1	
		MISCELLANEOUS		
	VKC0554	MINI CARD SPACER	1	
■ E26	VEP84339A	REAR JACK P. C. BOARD	1 (RTL)	
C4001-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C4101	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
C4102, 03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4104-09	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	6	
C4110-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C4115	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
C4116	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C4117	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
C4118, 19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4120, 21	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	2	
C4122, 23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C4201-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C4236-40	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
D4101-07	MA142K	DIODE	7	
IC3201-03	MC14053BF	IC	3	
IC3207	MC14053BF	IC	1	
J4001	VJS3902	CONNECTOR (FEMALE)	1	
J4002	VJS4316	JUMPER PORT	1	
J4003, 04	VJP3414A009	CONNECTOR (MALE)	2	
J4005	VJS4316	JUMPER PORT	1	
J4006	VJS3902	CONNECTOR (FEMALE)	1	
J4007	VJS3414A009	CONNECTOR (FEMALE)	1	
J4101	VJS4314	JUMPER PORT	1	
J4102, 03	VJS3902	CONNECTOR (FEMALE)	2	
J4201-04	VJS3417	CONNECTOR (FEMALE)	4	
J4205-10	VJP3417	CONNECTOR (MALE)	6	
L4001-23	VLP0145	COIL	23	
L4101	VLP0145	COIL	1	
L4102-05	VLQ0319K101	COIL 100UH	4	
L4201	VLP0145	COIL	1	
L4203	VLP0145	COIL	1	
L4205, 06	VLP0145	COIL	2	
L4208	VLP0145	COIL	1	
L4210, 11	VLP0145	COIL	2	
L4213	VLP0145	COIL	1	
L4215, 16	VLP0145	COIL	2	
L4218	VLP0145	COIL	1	
L4220, 21	VLP0145	COIL	2	
L4223	VLP0145	COIL	1	
L4225, 26	VLP0145	COIL	2	
L4228	VLP0145	COIL	1	
L4230, 31	VLP0145	COIL	2	
L4233	VLP0145	COIL	1	
L4235, 36	VLP0145	COIL	2	
L4238	VLP0145	COIL	1	
L4240, 41	VLP0145	COIL	2	
L4243	VLP0145	COIL	1	
L4245, 46	VLP0145	COIL	2	
L4248	VLP0145	COIL	1	
L4250	VLP0145	COIL	1	
P4001	VJS4329A040	CONNECTOR (FEMALE)	1	
P4002	VJS4329A030	CONNECTOR (FEMALE)	1	
P4003	VJS4329A040	CONNECTOR (FEMALE)	1	
Q4101-07	XN4601	TRANSISTOR-RESISTOR	7	
Q4108	2SB1218A-R	TRANSISTOR	1	
R4003, 04	ERJ14YJ101	M. RESISTOR CH 1/4W 100	2	
R4005-07	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R4008	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	
R4009-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R4013, 14	ERJ14YJ101	M. RESISTOR CH 1/4W 100	2	
R4101-06	ERJ6RBD151	M. RESISTOR CH 1/10W 150	6	
R4107	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4108-15	ERJ6RBD151	M. RESISTOR CH 1/10W 150	8	
R4116	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4117	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4118, 19	ERJ6RBD151	M. RESISTOR CH 1/10W 150	2	
R4120-26	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R4127	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4128-30	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R4131	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4132	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4133	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4134	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R4135	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4136, 37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R4138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4139-41	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R4142, 43	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R4144-46	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R4147, 48	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4149	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4150, 51	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R4152, 53	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R4154	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4155	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4156	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4157	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4158-60	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R4161, 62	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2	
R4163	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4164, 65	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R4166, 67	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R4168	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4169	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R4170	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R4171	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4172	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4173	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R4174	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R4175	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R4176, 77	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R4178	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R4179, 80	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R4401-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R4406-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R4412	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
SW4001	VSR0066	SWITCH	1	
		MISCELLANEOUS		
	VMP6229	D-SUB ANGLE	3	
	VMS6279	SPACER	4	
	XYN26+C4	SCREW	4	
	VXQ0102	SCREW	6	
■ E27	VEP84340A	VR BOARD 1 P.C. BOARD	1 (RTL)	
C64001, 02	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
D64001-04	M1MA151K	DIODE	4	
P64001	VJS3791B030	CONNECTOR (FEMALE)	1	
R64001, 02	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	2	
R64003-10	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	8	
R64011-19	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	9	
SW64001	VSS0279	SWITCH	1	
SW64002	VSS0313	SWITCH	1	
SW64003, 04	KOG119A00024	SWITCH	2	
VR64001-04	VRV0279	V. RESISTOR	4	
		MISCELLANEOUS		
	VJF1309	PIERCE HOLDER	1	
	VMT0776	GASLET (F)	2	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■ E28	VEP84341A	VR BOARD 2 P.C. BOARD	1 (RTL)	
C64501	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
D64501-09	MA151K	DIODE	9	
P64501	VJS3791B030	CONNECTOR (FEMALE)	1	
R64501-03	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	3	
R64504-11	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	8	
R64512	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R64513-16	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	4	
R64517	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R64518-23	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	6	
R64524-30	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	7	
R64531, 32	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R64533	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R64534-37	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	4	
SW64501	VSS0279	SWITCH	1	
SW64502	VSS0313	SWITCH	1	
SW64503	KOG119A00024	SWITCH	1	
SW64504	VSS0313	SWITCH	1	
SW64505	KOG119A00024	SWITCH	1	
SW64506	VSS0313	SWITCH	1	
SW64507	KOG119A00024	SWITCH	1	
SW64508	VSS0313	SWITCH	1	
SW64509	KOG119A00024	SWITCH	1	
VR64501-08	VRV0279	V. RESISTOR	8	
VR64509-12	VRV0324	V. RESISTOR	4	
		MISCELLANEOUS		
	VJF1309	PIERCE HOLDER	1	
■ E29	VEP84344B	AD/VD SUB P.C. BOARD	1 (RTL)	
C3001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3003	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3004	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3005	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3006	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3007	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C3008	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3009	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C3010	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3011	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3012, 13	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C3014	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	1	
C3015	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3016, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3018	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C3020	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3021	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3022	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3023, 24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3025-28	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	4	
C3029	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3030	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3031	ECEVOJV101Q	E. CAPACITOR CH6.3V 100U	1	
C3032	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C3033	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3034	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3035	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3036	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3037	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3038	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3040	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3041	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3042, 43	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3044	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3045	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3046	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3047	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C3048	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3049	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3050	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3051	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3052	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3053	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3054	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3055	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C3056	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3057, 58	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3059	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3060	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3061	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	1	
C3062	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3063	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1	
C3064, 65	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C3066	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3067	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3068, 69	ECST1CX106Z	T. CAPACITOR CH 16V 10U	2	
C3201	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3202	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3203	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3204	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3205	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3206	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C3207	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C3208, 09	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3210	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3211	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C3212	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3213, 14	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C3215	ECEV1HV4R7Q	E. CAPACITOR CH 50V 4.7U	1	
C3217	ECU1C392J	P. CAPACITOR 16V 3900P	1	
C3218	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C3219	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C3220	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C3221	ECU1C152J	P. CAPACITOR 16V 1500P	1	
C3222	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3223, 24	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C3225	ECUM1C334KBM	C. CAPACITOR CH 16V 0.33U	1	
C3226	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3227	ECU1C683JB5	P. CAPACITOR 16V 0.068U	1	
C3228	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C3229	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C3230	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3231	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3232	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C3233	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C3234	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3235	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	1	
C3236	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3237	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3238	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C3239	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3240	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C3301	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3302	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C3303, 04	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	2	
C3305	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	
C3306-13	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	8	
C3316, 17	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3318	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3319, 20	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	2	
C3321	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1	
C3322, 23	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2	
C3324, 25	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	2	
C3328, 29	ECUX1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3330	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3331, 32	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C3333, 34	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C3335	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C3337	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3501, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3601	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3603	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	1	
C3604	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
C3606	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3607, 08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3610, 11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3613	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3614	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3615	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3616	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3617	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C3618	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C3619	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3620, 21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3622	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3623, 24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3625	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3626	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3701	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3702, 03	ECUM1C474KBN	C. CAPACITOR CH 16V 0.47U	2	
C3706, 07	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	2	
C3708	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3710	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
C3712	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C3713, 14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3716	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3718-20	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3721	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C3722	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C3723	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C3724, 25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3726, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3728, 29	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	2	
C3730, 31	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C3732, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C3734	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C3735-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C3739	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7201	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7202	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C7203	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C7204	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7206	ECUX1C106VBP	C. CAPACITOR CH 16V 10U	1	
C7207	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
C7209	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7210	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7211	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C7212	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7213, 14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7215	ECEV1HV47RQ	E. CAPACITOR CH 50V 4.7U	1	
C7217	ECU1C392J	P. CAPACITOR 16V 3900P	1	
C7218	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C7219	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C7220	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C7221	ECU1C152J	P. CAPACITOR 16V 1500P	1	
C7222	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7223, 24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C7225	ECUM1C334KBN	C. CAPACITOR CH 16V 0.33U	1	
C7226	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C7227	ECU1C683JB5	P. CAPACITOR 16V 0.068U	1	
C7228	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	
C7229	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C7230	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7231	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7232	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C7234	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7236	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C7237	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7238	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7239	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C7240	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C7501, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40601-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40606, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40608, 09	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
C40610, 11	ECEV0JV220Q	E. CAPACITOR CH6. 3V 22U	2	
C40612, 13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40614	ECEV0JV220Q	E. CAPACITOR CH6. 3V 22U	1	
C40615	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C40616-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C40621, 22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40623	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C40624	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C40625	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C40626, 27	ECEV0JV220Q	E. CAPACITOR CH6. 3V 22U	2	
C40628, 29	ECUX1C105KBN	C. CAPACITOR CH 16V 1U	2	
C40630	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C40632	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C40633	ECUX1C105KBN	C. CAPACITOR CH 16V 1U	1	
C40634, 35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C40636	ECUX1C105KBN	C. CAPACITOR CH 16V 1U	1	
C40637-44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C41001	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C41002, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C41004, 05	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C41006	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C41007-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C41011-14	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	4	
C41015, 16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C41017, 18	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C41019-26	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C41027	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C41028	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C41029	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C41030	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C41039-42	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	4	
C41043-50	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	8	
C41101, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41103	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C41104, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41106	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C41108-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C41111	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C41112	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C41113	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C41115	ECEV0JV101Q	E. CAPACITOR CH6. 3V 100U	1	
C41117	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C41119	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C41121, 22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41125	ECU1C472JB	P. CAPACITOR 16V 4700P	1	
C41127	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C41129, 30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41131	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C41132, 33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41201, 02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41203	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1	
C41204, 05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41206	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C41208-10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C41211	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C41212	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C41213	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C41215	ECEV0JV101Q	E. CAPACITOR CH6. 3V 100U	1	
C41216	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C41218, 19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41220	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C41221, 22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C41223	ECU1C472JB	P. CAPACITOR 16V 4700P	1	
C41224, 25	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	2	
C41226, 27	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45601-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45606, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45608, 09	ECEV1CV220Q	E. CAPACITOR CH 16V 22U	2	
C45610, 11	ECEV0JV220Q	E. CAPACITOR CH6. 3V 22U	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C45612, 13	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45614	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	1	
C45615	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	
C45616-19	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C45621, 22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45623	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1	
C45624	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C45625	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C45626, 27	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	2	
C45628, 29	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	2	
C45630	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C45632	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C45633	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45634, 35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C45636	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C45637-44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8	
C46001	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C46002, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C46004, 05	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C46006	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C46007-10	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C46011-14	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	4	
C46015, 16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C46017, 18	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C46019-26	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C46027	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C46028	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C46029	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C46030	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C46039-42	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	4	
C46043-50	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	8	
D3201, 02	MA142WK	DIODE	2	
D3701-04	MA142WK	DIODE	4	
D7201, 02	MA142WK	DIODE	2	
D40601	MA157	DIODE	1	
D40602	MA142WK	DIODE	1	
D40603	MA716	DIODE	1	
D41001-04	MA147	DIODE	4	
D45601	MA157	DIODE	1	
D45602	MA142WK	DIODE	1	
D45603	MA716	DIODE	1	
D46001-04	MA147	DIODE	4	
FL3001	VLF1015	FILTER	1	
FL3201	VLF1179	FILTER	1	
FL3301, 02	VLF1476	FILTER	2	
IC3002	CXD2024AQ	IC	1	
IC3003	AD817AR	IC	1	
IC3004	AN77L05M	IC	1	
IC3005	CXD1176Q	IC	1	
IC3006	XC62DN5002P	IC	1	
IC3007, 08	AN77L05M	IC	2	
IC3009	TC7W125FU	IC	1	
IC3010	TC7W04FU	IC	1	
IC3011	TC7S00FU	IC	1	
IC3201	XC62AP5002P	IC	1	
IC3202	MC14053BDT	IC	1	
IC3203	NJM78L09UA	IC	1	
IC3204	AN3296S	IC	1	
IC3205	MM74HC221AM	IC	1	
IC3206	AN91A12S	IC	1	
IC3207	TC7S08F	IC	1	
IC3301	AN77L08M	IC	1	
IC3302, 03	NJM1496V	IC	2	
IC3304, 05	NJM2534V	IC	2	
IC3306	TC7S04FU	IC	1	
IC3501	MN53015VZW	IC	1	
IC3601	LT1228CS8	IC	1	
IC3603	AN77L05M	IC	1	
IC3604	TVHC541FT	IC	1	
IC3605	CXD1176Q	IC	1	
IC3606	NJM4556AM	IC	1	
IC3701	TC7S04FU	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3702	TC7S32FU	IC	1	
IC3703, 04	LT1228CS8	IC	2	
IC3705, 06	AN77L05M	IC	2	
IC3707, 08	TVHC541FT	IC	2	
IC3709	NJM4556AM	IC	1	
IC3710, 11	MB40568PF	IC	2	
IC3712	NJM4556AM	IC	1	
IC7201	XC62AP5002P	IC	1	
IC7202	NJM78L09UA	IC	1	
IC7203	AN3296S	IC	1	
IC7204	AN91A12S	IC	1	
IC7205	TC7S08F	IC	1	
IC7207	MM74HC221AM	IC	1	
IC7501	MN53015VZW	IC	1	
IC40601	TA75W558FU	IC	1	
IC40602	TVHC244FT	IC	1	
IC40603	AK4503VF	IC	1	
IC40605	TA75W558FU	IC	1	
IC40606	XC62AP3002P	IC	1	
IC40607	NJM78L05UA	IC	1	
IC40608	NJM79L05UA	IC	1	
IC40609-11	TC4W53FU	IC	3	
IC40612	TA75W558FU	IC	1	
IC41001-04	TA75W558FU	IC	4	
IC41101	AN77L05M	IC	1	
IC41102	AK4320VM	IC	1	
IC41103	TVHT541FT	IC	1	
IC41104	TA75W558FU	IC	1	
IC41106, 07	TC4W53FU	IC	2	
IC41201	TVHT541FT	IC	1	
IC41202	AN77L05M	IC	1	
IC41203	AK4320VM	IC	1	
IC41204	TC4W53FU	IC	1	
IC41205	TA75W558FU	IC	1	
IC41206	TC4W53FU	IC	1	
IC45601	TA75W558FU	IC	1	
IC45602	TVHC244FT	IC	1	
IC45603	AK4503VF	IC	1	
IC45605	TA75W558FU	IC	1	
IC45606	XC62AP3002P	IC	1	
IC45607	NJM78L05UA	IC	1	
IC45608	NJM79L05UA	IC	1	
IC45609-11	TC4W53FU	IC	3	
IC45612	TA75W558FU	IC	1	
IC46001-04	TA75W558FU	IC	4	
L3001-03	VLQ0319K101	COIL 100UH	3	
L3005	VLQ0319K470	COIL 47UH	1	
L3008	VLQ0426J180	COIL 18UH	1	
L3009	VLQ0426J220	COIL 22UH	1	
L3010	VLQ0426J180	COIL 18UH	1	
L3011	VLQ0426J220	COIL 22UH	1	
L3012	VLQ0426J5R6	COIL 5.6UH	1	
L3201	VLQ0133J391	COIL 390UH	1	
L3301, 02	VLQ0319K101	COIL 100UH	2	
L3303, 04	VLQ0426J680	COIL 68UH	2	
L3601	VLQ0426J180	COIL 18UH	1	
L3602	VLQ0319K101	COIL 100UH	1	
L3703	VLQ0319K101	COIL 100UH	1	
L7201	VLQ0133J391	COIL 390UH	1	
L41101	VLQ0163J100	COIL 10UH	1	
L41201	VLQ0163J100	COIL 10UH	1	
P1, P2	VJS3791B050	CONNECTOR (FEMALE)	2	
P3, P4	VJS3791D040	CONNECTOR (FEMALE)	2	
P5	VJS3791D010	CONNECTOR (FEMALE)	1	
Q3001	2SB1218A-R	TRANSISTOR	1	
Q3002	XN4601	TRANSISTOR-RESISTOR	1	
Q3003	2SC3930-B	TRANSISTOR	1	
Q3004	2SD1819A-R	TRANSISTOR	1	
Q3005	2SC3930-B	TRANSISTOR	1	
Q3006, 07	2SB1218A-R	TRANSISTOR	2	
Q3008	2SC3930-B	TRANSISTOR	1	
Q3009, 10	2SB1218A-R	TRANSISTOR	2	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q3201	2SD1819A-R	TRANSISTOR	1	
Q3202	XN4501	TRANSISTOR-RESISTOR	1	
Q3203	2SD1819A-R	TRANSISTOR	1	
Q3204	2SA1532-B	TRANSISTOR	1	
Q3205, 06	2SD1819A-R	TRANSISTOR	2	
Q3301, 02	XN4601	TRANSISTOR-RESISTOR	2	
Q3303-06	2SD1819A-R	TRANSISTOR	4	
Q3307-10	2SB1218A-R	TRANSISTOR	4	
Q3311, 12	2SD1819A-R	TRANSISTOR	2	
Q3313, 14	2SA1532-B	TRANSISTOR	2	
Q3315, 16	2SB1218A-R	TRANSISTOR	2	
Q3601	2SA1532-B	TRANSISTOR	1	
Q3602	2SD1979	TRANSISTOR	1	
Q3701	2SA1532-B	TRANSISTOR	1	
Q3702, 03	2SD1979	TRANSISTOR	2	
Q3704	2SD1819A-R	TRANSISTOR	1	
Q7201	2SD1819A-R	TRANSISTOR	1	
Q7202	XN4501	TRANSISTOR-RESISTOR	1	
Q40601	2SB1219A-R	TRANSISTOR	1	
Q40602	2SD1979	TRANSISTOR	1	
Q40603	2SK198-R	TRANSISTOR	1	
Q41001, 02	2SD602A-R	TRANSISTOR	2	
Q41003, 04	2SB710A-R	TRANSISTOR	2	
Q41005	2SD874A-R	TRANSISTOR	1	
Q41006	2SB766A-R	TRANSISTOR	1	
Q41007	2SD874A-R	TRANSISTOR	1	
Q41008, 09	2SB766A-R	TRANSISTOR	2	
Q41010, 11	2SD874A-R	TRANSISTOR	2	
Q41012	2SB766A-R	TRANSISTOR	1	
Q41101	2SD1979	TRANSISTOR	1	
Q41103	2SK198-R	TRANSISTOR	1	
Q41201	2SK198-R	TRANSISTOR	1	
Q41202	2SD1979	TRANSISTOR	1	
Q45601	2SB1219A-R	TRANSISTOR	1	
Q45602	2SD1979	TRANSISTOR	1	
Q45603	2SK198-R	TRANSISTOR	1	
Q46001, 02	2SD602A-R	TRANSISTOR	2	
Q46003, 04	2SB710A-R	TRANSISTOR	2	
Q46005	2SD874A-R	TRANSISTOR	1	
Q46006	2SB766A-R	TRANSISTOR	1	
Q46007	2SD874A-R	TRANSISTOR	1	
Q46008	2SB766A-R	TRANSISTOR	1	
Q46009	2SD874A-R	TRANSISTOR	1	
Q46010	2SB766A-R	TRANSISTOR	1	
Q46011	2SD874A-R	TRANSISTOR	1	
Q46012	2SB766A-R	TRANSISTOR	1	
QR3001	UN5213	TRANSISTOR-RESISTOR	1	
QR3301, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR40601	UN5213	TRANSISTOR-RESISTOR	1	
QR41101, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR41104	UN5113	TRANSISTOR-RESISTOR	1	
QR41201, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR41203	UN5113	TRANSISTOR-RESISTOR	1	
QR45601	UN5213	TRANSISTOR-RESISTOR	1	
R3001	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3002	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3003	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3004	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3005	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3006	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R3007	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3010	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3011	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3012	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3014	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3015	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3017	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3019	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3020	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3021, 22	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3023	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3024	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3026	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3027-29	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R3031	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3032	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R3033	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R3034	ERJ3RED270	M. RESISTOR CH 1/16W 27	1	
R3035	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3036	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3037	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3038	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3039	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3040	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3041	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R3042	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3044	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3046	VRE006610102	M. RESISTOR CH 1/10W 1K	1	
R3047	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3048	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3049	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3050	ERJ6RBD221	M. RESISTOR CH 1/10W 220	1	
R3051	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3052	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3053	ERJ6RBD221	M. RESISTOR CH 1/10W 220	1	
R3054	ERJ3RED750	M. RESISTOR CH 1/16W 75	1	
R3057	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3058	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3059	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R3060	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R3061	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3062	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3063	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R3064	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R3065	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3066	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3068	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R3069	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R3070	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3071, 72	ERJ3RBD681	M. RESISTOR CH 1/16W 680	2	
R3073	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3077	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3082	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3084	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3086	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3087, 88	ERJ3RBD681	M. RESISTOR CH 1/16W 680	2	
R3089, 90	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3091	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3092	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3095, 96	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R3098, 99	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3100	VRE006622102	V. RESISTOR CH 1/10W 1K	1	
R3101	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3102	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3103	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3105	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3201	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3202	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3203	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R3204	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R3205	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R3206	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R3207	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3208	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R3209	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R3210	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3211	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3212	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3213	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3214	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R3215	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3216	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3217	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3218	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R3219	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3220-22	ERJ3RED470	M. RESISTOR CH 1/16W 47	3	
R3223	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R3224	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3225, 26	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	2	
R3227	ERJ3RBD681	M. RESISTOR CH 1/16W 680	1	
R3228	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R3229	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R3230-32	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R3233	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3234	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3236	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3238	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3239	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	
R3240	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3241	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3242	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3243	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R3244	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3245	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3246	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3301	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3302, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3304-07	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R3308, 09	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	2	
R3310, 11	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3312	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R3313	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3314, 15	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R3316, 17	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3318, 19	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	2	
R3320, 21	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	2	
R3322, 23	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3324-27	ERJ3RBD101	M. RESISTOR CH 1/16W 100	4	
R3328, 29	ERJ3RBD821	M. RESISTOR CH 1/16W 820	2	
R3330, 31	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R3332, 33	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3334, 35	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3336, 37	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	2	
R3338, 39	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	2	
R3340	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3341	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3342	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3343	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3344, 45	ERJ3RED470	M. RESISTOR CH 1/16W 47	2	
R3346-49	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	4	
R3350-53	ERJ3RED470	M. RESISTOR CH 1/16W 47	4	
R3354, 55	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3356-59	ERJ3RBD681	M. RESISTOR CH 1/16W 680	4	
R3360-63	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R3364	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R3365	ERJ3RBD271	M. RESISTOR CH 1/16W 270	1	
R3366, 67	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3368, 69	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R3370, 71	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	2	
R3372	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3501, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3503	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3504, 05	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3506	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3508	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3509	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3601	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3604, 05	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R3606	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	
R3608	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R3609	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	
R3610	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3614	ERJ3RBD101	M. RESISTOR CH 1/16W 100	1	
R3615	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	
R3616	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3617	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3619	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R3620	ERJ3RBD393	M. RESISTOR CH 1/16W 39K	1	
R3621	ERJ3RED750	M. RESISTOR CH 1/16W 75	1	
R3622	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3626	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R3627	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3628	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3629	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3630-37	ERJ3RBD101	M. RESISTOR CH 1/16W 100	8	
R3638	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3701	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R3703, 04	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R3705, 06	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R3709, 10	ERJ3RBD821	M. RESISTOR CH 1/16W 820	2	
R3711	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3714, 15	ERJ3RBD101	M. RESISTOR CH 1/16W 100	2	
R3716, 17	ERJ3RBD221	M. RESISTOR CH 1/16W 220	2	
R3718, 19	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3722, 23	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	2	
R3724, 25	ERJ3RED750	M. RESISTOR CH 1/16W 75	2	
R3726	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R3727	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3729	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R3730	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3734, 35	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R3736	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3737	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3738	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3739	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R3740, 41	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R3742	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3743	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R3744	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R3745	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R3746-61	ERJ3RBD101	M. RESISTOR CH 1/16W 100	16	
R3763	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3765	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3766	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3767	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R3768-70	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	3	
R7201	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7202	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7203	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R7204	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R7205	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R7206	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R7207	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7208	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R7209	ERJ3RBD331	M. RESISTOR CH 1/16W 330	1	
R7210	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R7211	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R7212	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R7213	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7214	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R7215	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R7216	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7218	ERJ3RBD753	M. RESISTOR CH 1/16W 75K	1	
R7220	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7223	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R7224	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R7228	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R7229	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	
R7230-32	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R7236	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7238	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R7240	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7241	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R7243	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R7245	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7246	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R7501-04	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R7505, 06	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R7508	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R7509	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R7510	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R40602	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40603	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R40604	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40606	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40607	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R40608	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R40609, 10	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R40611, 12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R40613	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R40614	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40618	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40619, 20	ERJ3RED100	M. RESISTOR CH 1/16W 10	2	
R40621-23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R40624	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R40625	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R40626	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R40629	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40630	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R40632	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R40633	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R40634	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R40635	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
R40636	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R40637	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R40638	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R40639	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R40640	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R40641	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R40642	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41001-04	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R41005	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R41006	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41007	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R41008	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41009, 10	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R41011-18	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	8	
R41019	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41020	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41021, 22	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R41023, 24	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R41025	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41026	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41028	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41031	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41051	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41052	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R41053	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R41054	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R41055	ERJ3RED150	M. RESISTOR CH 1/16W 15	1	
R41056	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R41057	ERJ3RED150	M. RESISTOR CH 1/16W 15	1	
R41058	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R41059-62	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R41063-66	ERJ3RBD561	M. RESISTOR CH 1/16W 560	4	
R41067-70	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R41071, 72	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R41073	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
R41074	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R41075	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
R41076-79	ERJ14YJ100	M. RESISTOR CH 1/4W 10	4	
R41080, 81	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R41082	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R41083, 84	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R41085, 86	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R41087	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R41088, 89	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R41090	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R41091, 92	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R41104	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41106-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R41109-12	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
R41113	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41115	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R41117	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R41119, 20	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R41122	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R41124	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41126	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41128	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R41130	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R41132	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R41134	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R41136	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41138	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41139	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R41140	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41144	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R41146	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41148	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41150	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R41152	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R41153	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41156	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R41157	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R41158	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R41159	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41160-62	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R41163	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41204	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41206-08	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R41209-12	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	4	
R41213	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R41215	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R41217	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R41219, 20	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2	
R41221	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	
R41222	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41224	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	1	
R41225	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R41226	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41227	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R41228	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41229	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R41230, 31	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R41232	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	
R41233	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R41234	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R41235	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	1	
R41236	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R41237	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R41238	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R41239	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R41240	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R41241	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R41242	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R41243	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R41244, 45	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R41246	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45602	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45603	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
R45604	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45606	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45607	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R45608	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45609, 10	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2	
R45611, 12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R45613	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1	
R45614	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45618	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45619, 20	ERJ3RED100	M. RESISTOR CH 1/16W 10	2	
R45621-23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	3	
R45624	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R45625	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R45626	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1	
R45629	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R45630	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1	
R45632	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R45633	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R45634	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R45635, 36	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	2	
R45637	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R45638	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	
R45639	ERJ3RBD561	M. RESISTOR CH 1/16W 560	1	
R45640	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
R45641	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R45642	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R46001-04	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	4	
R46005	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R46006	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R46007	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	1	
R46008	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R46009, 10	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	2	
R46011-18	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	8	
R46019	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R46020	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46021, 22	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	2	
R46023, 24	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	2	
R46025	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R46026	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46028	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46031	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46051	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46052	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R46053	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R46054	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R46055	ERJ3RED150	M. RESISTOR CH 1/16W 15	1	
R46056	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R46057	ERJ3RED150	M. RESISTOR CH 1/16W 15	1	
R46058	ERJ14YJ220	M. RESISTOR CH 1/4W 22	1	
R46059-62	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R46063-66	ERJ3RBD561	M. RESISTOR CH 1/16W 560	4	
R46067-70	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	4	
R46071, 72	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R46073, 74	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R46075	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R46076, 77	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R46078	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R46079, 80	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R46081, 82	ERJ14YJ100	M. RESISTOR CH 1/4W 10	2	
R46083	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R46084, 85	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
R46086-89	ERJ14YJ100	M. RESISTOR CH 1/4W 10	4	
R46090	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	
R46091, 92	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	2	
RY41001-04	AQV212SX	IC	4	
RY46001-04	AQV212SX	IC	4	
TG3001, 02	EYF6CU	TEST POINT	2	
TG3301	EYF6CU	TEST POINT	1	
TG40601	EYF6CU	TEST POINT	1	
TG41105	EYF6CU	TEST POINT	1	
TG41204	EYF6CU	TEST POINT	1	
TG45601	EYF6CU	TEST POINT	1	
TP3201	EYF6CU	TEST POINT	1	
TP3501	EYF6CU	TEST POINT	1	
TP3601	EYF6CU	TEST POINT	1	
TP3701, 02	EYF6CU	TEST POINT	2	
TP7201	EYF6CU	TEST POINT	1	
TP7501	EYF6CU	TEST POINT	1	
TP40601, 02	EYF6CU	TEST POINT	2	
TP41101-03	EYF6CU	TEST POINT	3	
TP41201-03	EYF6CU	TEST POINT	3	
TP45601, 02	EYF6CU	TEST POINT	2	
VR3002	EVM7JGA00B14	V. RESISTOR 10K	1	
VR3003	EVM7JGA00B52	V. RESISTOR 500	1	
VR3301, 02	EVM7JGA00B23	V. RESISTOR 2K	2	
VR3305, 06	EVM7JGA00B13	V. RESISTOR 1K	2	
VR3601	EVM7JGA00B22	V. RESISTOR 200	1	
VR3602	EVM7JGA00B53	V. RESISTOR 5K	1	
VR3701, 02	EVM7JGA00B22	V. RESISTOR 200	2	
VR3703, 04	EVM7JGA00B53	V. RESISTOR 5K	2	
VR41001, 02	EVM7JGA00B52	V. RESISTOR 500	2	
VR41101	EVM7JGA00B14	V. RESISTOR 10K	1	
VR41201	EVM7JGA00B14	V. RESISTOR 10K	1	
VR46001, 02	EVM7JGA00B52	V. RESISTOR 500	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E30	VEP85182A	RF AMP 1 P.C. BOARD	1 (RTL)	
C51001, 02	EEVHB1V100	E. CAPACITOR 35V 10U	2	
C51003, 04	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51005-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C51009, 10	EEVHB1V100	E. CAPACITOR 35V 10U	2	
C51011, 12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C51013, 14	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51016, 17	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51018	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C51019-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C51025, 26	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51027, 28	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C51029, 30	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51032, 33	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C51034-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C51101	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51103	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C51104	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C51105	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C51106, 07	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C51111	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51113	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C51114	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C51115	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C51116, 17	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C51121	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51123	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C51124	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C51125	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C51126, 27	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C51131	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51133	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C51134	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C51135	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C51136, 37	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C51151, 52	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C51161, 62	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C51171	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C51172	EEVHB0J101	E. CAPACITOR 6.3V 100U	1	
C51181-85	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5	
C51201, 02	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51203-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C51207	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C51208	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C51209	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51211	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51212	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C51213	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C51214-16	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C51231	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C51232-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C51238	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51239	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51240	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51251	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C51252-57	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C51258	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51259	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51260	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51301, 02	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51303-06	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
C51307	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C51308	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C51309	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51311	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C51312	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C51313	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C51314, 15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C51331	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C51332-37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C51338	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C51339	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51340	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51351	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C51352-57	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C51358	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51359	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51360	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51401-08	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	8	
C51409, 10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51411, 12	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C51413, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51415-18	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C51419	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51420, 21	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51422-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51428	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C51429-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51432	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51433	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C51434	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C51435, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51437	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51441	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51443	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51445-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C51448	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C51449	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51450	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51451	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51452	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51453	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C51454, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51456	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C51457	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51458	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51459-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C51463	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51464	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51465	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51466	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51467	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51468, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C51470	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51471	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51472	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51474	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51475	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51476	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51478	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51480, 81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51482, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51484, 85	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51486	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51487	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C51488	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C51489	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C51490	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C51501-08	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	8	
C51509, 10	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51511, 12	EEVHB1C100	E. CAPACITOR 16V 10U	2	
C51513, 14	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51515-18	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C51519	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51520, 21	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51522-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51528	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C51529-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51532	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51533	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C51534	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C51535, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51537	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51541	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51543	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51545-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C51548	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C51549	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51550	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51551	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51552	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51553	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C51554, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51556	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C51557	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51558	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51559-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C51563	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51564	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51565	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51566	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C51567	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C51568, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C51570	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51571	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51572	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51574	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51575	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C51576	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51578	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51580, 81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51582, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C51584, 85	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C51586	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C51587	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C51588	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C51589	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C51590	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C51801-39	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	39	
C51841-43	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51846	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C51851-53	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51861-63	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C51871-78	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	8	
C51901-07	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	7	
D51001, 02	MA701A	DIODE	2	
D51171	MA153	DIODE	1	
D51231, 32	MA142WK	DIODE	2	
D51251, 52	MA142WK	DIODE	2	
D51331, 32	MA142WK	DIODE	2	
D51351, 52	MA142WK	DIODE	2	
FL51001, 02	VLF0931	FILTER	2	
FL51003, 04	VLF1016A223	FILTER	2	
FL51005, 06	VLF0931	FILTER	2	
IC51001	XC62AP3002P	IC	1	
IC51002	LT1129CS8	IC	1	
IC51004	LT1129CS8	IC	1	
IC51005	LT1175CS8	IC	1	
IC51007	LT1175CS8	IC	1	
IC51101, 02	TVHC08FT	IC	2	
IC51103, 04	TVHC32FT	IC	2	
IC51105	TVHT04FT	IC	1	
IC51201	MC10H116M	IC	1	
IC51231, 32	TC4S69F	IC	2	
IC51251, 52	TC4S69F	IC	2	
IC51331, 32	TC4S69F	IC	2	
IC51351, 52	TC4S69F	IC	2	
IC51401, 02	UPC5102GS030	IC	2	
IC51441	MC1495D	IC	1	
IC51442	UPC1663G	IC	1	
IC51501, 02	UPC5102GS030	IC	2	
IC51541	MC1495D	IC	1	
IC51542	UPC1663G	IC	1	
IC51801	M62370GP	IC	1	
IC51802	NJM064V	IC	1	
IC51804-07	THC4053FT	IC	4	
IC51808	NJM064V	IC	1	
IC51810	NJM064V	IC	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC51812-15	THC4053FT	IC	4	
IC51901	TC7W32FU	IC	1	
IC51902	TVHT74FT	IC	1	
IC51903	TC7W32FU	IC	1	
IC51904	TVHC32FT	IC	1	
IC51905-07	TVHT04FT	IC	3	
L51101, 02	VLQ0163J2R2	COIL 2. 2UH	2	
L51111, 12	VLQ0163J2R2	COIL 2. 2UH	2	
L51121, 22	VLQ0163J2R2	COIL 2. 2UH	2	
L51131, 32	VLQ0163J2R2	COIL 2. 2UH	2	
L51201, 02	VLQ0163J330	COIL 33UH	2	
L51301, 02	VLQ0163J330	COIL 33UH	2	
L51402	VLQ0163J1R0	COIL 1UH	1	
L51403, 04	VLQ0163J101	COIL 100UH	2	
L51441	VLQ0163JR68	COIL 0. 68UH	1	
L51442	VLQ0163JR39	COIL 0. 39UH	1	
L51443	VLQ0163JR33	COIL 0. 33UH	1	
L51444	VLQ0163JR68	COIL 0. 68UH	1	
L51445	VLQ0163JR39	COIL 0. 39UH	1	
L51446	VLQ0163JR33	COIL 0. 33UH	1	
L51447, 48	VLQ0163JR22	COIL 0. 22UH	2	
L51449	VLQ0163JR68	COIL 0. 68UH	1	
L51502	VLQ0163J1R0	COIL 1UH	1	
L51503, 04	VLQ0163J101	COIL 100UH	2	
L51541	VLQ0163JR68	COIL 0. 68UH	1	
L51542	VLQ0163JR39	COIL 0. 39UH	1	
L51543	VLQ0163JR33	COIL 0. 33UH	1	
L51544	VLQ0163JR68	COIL 0. 68UH	1	
L51545	VLQ0163JR39	COIL 0. 39UH	1	
L51546	VLQ0163JR33	COIL 0. 33UH	1	
L51547, 48	VLQ0163JR22	COIL 0. 22UH	2	
L51549	VLQ0163JR68	COIL 0. 68UH	1	
P51001	VJP4064L080	CONNECTOR (MALE)	1	
P51002	VJS3900C013	CONNECTOR (FEMALE)	1	
P51003	VJS3900A024	CONNECTOR (FEMALE)	1	
Q51001	2SB1114	TRANSISTOR	1	
Q51003	2SD1280-S	TRANSISTOR	1	
Q51004	2SB1218A-R	TRANSISTOR	1	
Q51101	2SB709A-R	TRANSISTOR	1	
Q51102, 03	2SC3735B35	TRANSISTOR	2	
Q51111	2SB709A-R	TRANSISTOR	1	
Q51112, 13	2SC3735B35	TRANSISTOR	2	
Q51121	2SB709A-R	TRANSISTOR	1	
Q51122, 23	2SC3735B35	TRANSISTOR	2	
Q51131	2SB709A-R	TRANSISTOR	1	
Q51132, 33	2SC3735B35	TRANSISTOR	2	
Q51171	2SB709A-R	TRANSISTOR	1	
Q51172	2SD601A-R	TRANSISTOR	1	
Q51201	2SC3935	TRANSISTOR	1	
Q51202	2SA1532-B	TRANSISTOR	1	
Q51203	2SK508K512	TRANSISTOR	1	
Q51204	2SC2954	TRANSISTOR	1	
Q51205	2SA1532-B	TRANSISTOR	1	
Q51206, 07	2SC2954	TRANSISTOR	2	
Q51208	2SK508K512	TRANSISTOR	1	
Q51209	2SC3935	TRANSISTOR	1	
Q51231	2SA1532-B	TRANSISTOR	1	
Q51232, 33	XN1504	TRANSISTOR-RESISTOR	2	
Q51234, 35	2SD1979	TRANSISTOR	2	
Q51251	2SA1532-B	TRANSISTOR	1	
Q51252, 53	XN1504	TRANSISTOR-RESISTOR	2	
Q51254, 55	2SD1979	TRANSISTOR	2	
Q51301	2SC3935	TRANSISTOR	1	
Q51302	2SA1532-B	TRANSISTOR	1	
Q51303	2SK508K512	TRANSISTOR	1	
Q51304	2SC2954	TRANSISTOR	1	
Q51305	2SA1532-B	TRANSISTOR	1	
Q51306, 07	2SC2954	TRANSISTOR	2	
Q51308	2SK508K512	TRANSISTOR	1	
Q51309	2SC3935	TRANSISTOR	1	
Q51331	2SA1532-B	TRANSISTOR	1	
Q51332, 33	XN1504	TRANSISTOR-RESISTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q51334, 35	2SD1979	TRANSISTOR	2	
Q51351	2SA1532-B	TRANSISTOR	1	
Q51352, 53	XN1504	TRANSISTOR-RESISTOR	2	
Q51354, 55	2SD1979	TRANSISTOR	2	
Q51401-04	2SD1979	TRANSISTOR	4	
Q51405	2SC3930-B	TRANSISTOR	1	
Q51406	XN6537	TRANSISTOR-RESISTOR	1	
Q51407	2SC3930-B	TRANSISTOR	1	
Q51408	XN5531	TRANSISTOR-RESISTOR	1	
Q51409, 10	2SK508K512	TRANSISTOR	2	
Q51411, 12	2SC3930-B	TRANSISTOR	2	
Q51413, 14	2SD1979	TRANSISTOR	2	
Q51441	2SC3930-B	TRANSISTOR	1	
Q51442	XN5531	TRANSISTOR-RESISTOR	1	
Q51443-49	2SD1979	TRANSISTOR	7	
Q51450-52	2SC3930-B	TRANSISTOR	3	
Q51453	2SD1979	TRANSISTOR	1	
Q51454	2SC3930-B	TRANSISTOR	1	
Q51455	2SD1979	TRANSISTOR	1	
Q51456, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q51501-04	2SD1979	TRANSISTOR	4	
Q51505	2SC3930-B	TRANSISTOR	1	
Q51506	XN6537	TRANSISTOR-RESISTOR	1	
Q51507	2SC3930-B	TRANSISTOR	1	
Q51508	XN5531	TRANSISTOR-RESISTOR	1	
Q51509, 10	2SK508K512	TRANSISTOR	2	
Q51511, 12	2SC3930-B	TRANSISTOR	2	
Q51513, 14	2SD1979	TRANSISTOR	2	
Q51541	2SC3930-B	TRANSISTOR	1	
Q51542	XN5531	TRANSISTOR-RESISTOR	1	
Q51543-49	2SD1979	TRANSISTOR	7	
Q51550-52	2SC3930-B	TRANSISTOR	3	
Q51553	2SD1979	TRANSISTOR	1	
Q51554	2SC3930-B	TRANSISTOR	1	
Q51555	2SD1979	TRANSISTOR	1	
Q51556, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q51901-10	2SB1218A-R	TRANSISTOR	10	
QR51001	UN5213	TRANSISTOR-RESISTOR	1	
QR51101	UN5213	TRANSISTOR-RESISTOR	1	
QR51111	UN5213	TRANSISTOR-RESISTOR	1	
QR51121	UN5213	TRANSISTOR-RESISTOR	1	
QR51131	UN5213	TRANSISTOR-RESISTOR	1	
R51001	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R51002	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51005	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51006	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R51009	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R51041-44	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R51051-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R51101, 02	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R51103	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R51104	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51105	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51106	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51107	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R51108	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51109	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51110	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51111, 12	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R51113	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R51114	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51115	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51116	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51117	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R51118	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51119	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51120	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51121, 22	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R51123	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R51124	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51125	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51126	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51127	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R51128	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51129	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51130	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51131, 32	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R51133	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R51134	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51135	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51136	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51137	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R51138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51139	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51140	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51141	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51142	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51143	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51144	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51145	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51146	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51147	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51148	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51151-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R51155, 56	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R51158	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51161-64	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R51168	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51171	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51172	ERJ3GEYG683	M. RESISTOR CH 1/16W 68K	1	
R51173	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R51174, 75	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R51201	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51202, 03	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R51205, 06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R51207, 08	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R51209	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51210	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51211	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51212, 13	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R51214	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51215	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R51216, 17	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R51218	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51219	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51220	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R51221	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R51222	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R51223	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51224	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51225	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R51226	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51231, 32	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R51233	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51234-37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R51238, 39	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51240	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51241	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51242	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51243	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51251, 52	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R51253	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51254-57	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R51258, 59	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51260	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51261	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51262	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51263	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51301	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51302, 03	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R51305, 06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R51307, 08	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R51309	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51310	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51311	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R51312, 13	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R51314	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51315	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R51316, 17	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R51318	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51319	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51320	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R51321	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R51322	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R51323	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51324	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51325	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R51326	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51331, 32	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R51333	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51334-37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R51338, 39	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51340	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51341	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51342	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51343	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51351, 52	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R51353	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51354-57	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R51358, 59	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51360	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51361	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51362	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51363	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R51401-06	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	6	
R51407, 08	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R51409-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51412	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R51413	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R51414	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R51415	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R51416	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R51417	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51418, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R51420, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R51422, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R51424	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R51425	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R51426	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R51427	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R51428, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R51430	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51431	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51432, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R51434	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R51435, 36	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R51437	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51439	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51440	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51441-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51444-46	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	3	
R51447-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51450	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51451, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51453	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R51454	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51455, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R51457, 58	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R51459-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R51463	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51464	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51465	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51466-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R51469	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R51470	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51471	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51472	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R51473	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51474	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R51475, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R51477	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R51478	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R51479	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	







Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C52013, 14	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52015	ECST1CC226Z	T. CAPACITOR CH 16V 22U	1	
C52016, 17	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52018	EEVHB1A330	E. CAPACITOR 10V 33U	1	
C52019-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C52025, 26	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52027, 28	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52029, 30	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52031	ECST1CC226Z	T. CAPACITOR CH 16V 22U	1	
C52032, 33	EEVHB1C220	E. CAPACITOR 16V 22U	2	
C52034-38	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C52101	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52103	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C52104	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C52105	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C52106, 07	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C52111	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52113	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C52114	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C52115	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C52116, 17	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C52121	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52123	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C52124	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C52125	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C52126, 27	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C52131	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52133	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
C52134	ECUX1H030CCV	C. CAPACITOR CH 50V 3P	1	
C52135	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	
C52136, 37	ECUX1H080DCV	C. CAPACITOR CH 50V 8P	2	
C52151, 52	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C52161, 62	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C52171	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C52172	EEVHB0J101	E. CAPACITOR 6.3V 100U	1	
C52181-85	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	5	
C52201, 02	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	2	
C52203-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C52207	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C52208	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C52209	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52211	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52212	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C52213	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C52214-16	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52231	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C52232-37	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C52238	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52239	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52240	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52251	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C52252-57	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C52258	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52259	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52260	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52301, 02	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	2	
C52303-06	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	4	
C52307	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C52308	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C52309	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52311	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52312	EEVHP1E4R7R	E. CAPACITOR CH 25V 4.7U	1	
C52313	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C52314, 15	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52331	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C52332-37	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C52338	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52339	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52340	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52351	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1	
C52352-57	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	6	
C52358	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52359	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52360	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52401-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C52405	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52406	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C52407	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52408, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52422-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52428	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52429-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52432	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52433	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C52434	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C52435, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52437	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52441	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52443	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52445-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52448	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52449	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52450	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52451	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52452	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52453	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C52454, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52456	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C52457	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52458	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52459-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52463	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52464	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52465	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52466	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52467	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52468, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C52470	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52471	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52472	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52474	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52475	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52476	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52478	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52480, 81	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52482, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52484, 85	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52486	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52487	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C52488	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52489	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52490	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C52501-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C52505	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52506	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C52507	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52508, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52522-24	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52528	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52529-31	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	3	
C52532	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52533	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C52534	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C52535, 36	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	2	
C52537	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52541	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52543	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	
C52545-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52548	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52549	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52550	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52551	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52552	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52553	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C52554, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52556	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C52557	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52558	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52559-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52563	ECUX1E104ZV	C. CAPACITOR CH 25V 0.1U	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C52564	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52725	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1	
C52565	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52728	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52566	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C52729-31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52567	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C52732	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52568, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2		C52733	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1	
C52570	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52734	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C52571	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52735, 36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C52572	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52737	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52574	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52741	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52575	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C52743	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52576	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52745-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52578	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52748	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52580, 81	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C52749	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52582, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C52750	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52584, 85	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C52751	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52586	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52752	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52587	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C52753	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1	
C52588	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C52754, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52589	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1		C52756	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1	
C52590	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1		C52757	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52601-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4		C52758	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52605	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52759-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C52606	EEVHB1C100	E. CAPACITOR 16V 10U	1		C52763	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52607	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52764	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52608, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C52765	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52622-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		C52766	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
C52625	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	1		C52767	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1	
C52628	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		C52768, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2	
C52629-31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		C52770	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52632	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52771	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52633	ECUX1H563KBN	C. CAPACITOR CH 50V 0.056U	1		C52772	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52634	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1		C52774	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52635, 36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C52775	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C52637	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52776	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52641	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52778	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52643	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52780, 81	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C52645-47	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3		C52782, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C52648	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1		C52784, 85	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	
C52649	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52786	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C52650	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C52787	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C52651	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52788	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	
C52652	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C52789	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C52653	ECUX1H681KBV	C. CAPACITOR CH 50V 680P	1		C52790	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
C52654, 55	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C52801-39	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	39	
C52656	ECUX1H391JCV	C. CAPACITOR CH 50V 390P	1		C52841-43	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52657	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52846	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
C52658	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1		C52851-53	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52659-61	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3		C52856-58	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52663	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52861-63	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52664	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C52866-68	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
C52665	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C52871-76	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	6	
C52666	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C52901-07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7	
C52667	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1						
C52668, 69	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	2		D52001, 02	MA701A	DIODE	2	
C52670	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		D52171	MA153	DIODE	1	
C52671	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		D52231, 32	MA142WK	DIODE	2	
C52672	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		D52251, 52	MA142WK	DIODE	2	
C52674	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		D52331, 32	MA142WK	DIODE	2	
C52675	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		D52351, 52	MA142WK	DIODE	2	
C52676	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1						
C52678	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		FL52001, 02	VLF0931	FILTER	2	
C52680, 81	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		FL52003, 04	VLF1016A223	FILTER	2	
C52682, 83	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		FL52005, 06	VLF0931	FILTER	2	
C52684, 85	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2						
C52686	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		IC52001	XC62AP3002P	IC	1	
C52687	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		IC52002-04	LT1129CS8	IC	3	
C52688	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1		IC52005-07	LT1175CS8	IC	3	
C52689	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1		IC52101, 02	TVHC08FT	IC	2	
C52690	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1		IC52103, 04	TVHC32FT	IC	2	
C52701-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4		IC52105	TVHT04FT	IC	1	
C52705	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC52201	MC10H116M	IC	1	
C52706	EEVHB1C100	E. CAPACITOR 16V 10U	1		IC52231, 32	TC4S69F	IC	2	
C52707	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC52251, 52	TC4S69F	IC	2	
C52708, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		IC52331, 32	TC4S69F	IC	2	
C52722-24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		IC52351, 52	TC4S69F	IC	2	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC52401	UPC5102GS030	IC	1	
IC52441	MC1495D	IC	1	
IC52442	UPC1663G	IC	1	
IC52501	UPC5102GS030	IC	1	
IC52541	MC1495D	IC	1	
IC52542	UPC1663G	IC	1	
IC52601	UPC5102GS030	IC	1	
IC52641	MC1495D	IC	1	
IC52642	UPC1663G	IC	1	
IC52701	UPC5102GS030	IC	1	
IC52741	MC1495D	IC	1	
IC52742	UPC1663G	IC	1	
IC52801	M62370GP	IC	1	
IC52802	NJM064V	IC	1	
IC52804-07	THC4053FT	IC	4	
IC52808-11	NJM064V	IC	4	
IC52814, 15	THC4053FT	IC	2	
IC52901	TC7S32FU	IC	1	
IC52902	TVHT74FT	IC	1	
IC52903	TC7W32FU	IC	1	
IC52904	TVHC32FT	IC	1	
IC52905-07	TVHT04FT	IC	3	
L52101, 02	VLQ0163J2R2	COIL 2. 2UH	2	
L52111, 12	VLQ0163J2R2	COIL 2. 2UH	2	
L52121, 22	VLQ0163J2R2	COIL 2. 2UH	2	
L52131, 32	VLQ0163J2R2	COIL 2. 2UH	2	
L52201, 02	VLQ0163J330	COIL 33UH	2	
L52301, 02	VLQ0163J330	COIL 33UH	2	
L52402	VLQ0163J1R0	COIL 1UH	1	
L52403, 04	VLQ0163J101	COIL 100UH	2	
L52441	VLQ0163JR68	COIL 0. 68UH	1	
L52442	VLQ0163JR39	COIL 0. 39UH	1	
L52443	VLQ0163JR33	COIL 0. 33UH	1	
L52444	VLQ0163JR68	COIL 0. 68UH	1	
L52445	VLQ0163JR39	COIL 0. 39UH	1	
L52446	VLQ0163JR33	COIL 0. 33UH	1	
L52447, 48	VLQ0163JR22	COIL 0. 22UH	2	
L52449	VLQ0163JR68	COIL 0. 68UH	1	
L52502	VLQ0163J1R0	COIL 1UH	1	
L52503, 04	VLQ0163J101	COIL 100UH	2	
L52541	VLQ0163JR68	COIL 0. 68UH	1	
L52542	VLQ0163JR39	COIL 0. 39UH	1	
L52543	VLQ0163JR33	COIL 0. 33UH	1	
L52544	VLQ0163JR68	COIL 0. 68UH	1	
L52545	VLQ0163JR39	COIL 0. 39UH	1	
L52546	VLQ0163JR33	COIL 0. 33UH	1	
L52547, 48	VLQ0163JR22	COIL 0. 22UH	2	
L52549	VLQ0163JR68	COIL 0. 68UH	1	
L52601	VLQ0163JR68	COIL 0. 68UH	1	
L52602	VLQ0163J1R0	COIL 1UH	1	
L52603, 04	VLQ0163J101	COIL 100UH	2	
L52641	VLQ0163JR68	COIL 0. 68UH	1	
L52642	VLQ0163JR39	COIL 0. 39UH	1	
L52643	VLQ0163JR33	COIL 0. 33UH	1	
L52644	VLQ0163JR68	COIL 0. 68UH	1	
L52645	VLQ0163JR39	COIL 0. 39UH	1	
L52646	VLQ0163JR33	COIL 0. 33UH	1	
L52647, 48	VLQ0163JR22	COIL 0. 22UH	2	
L52649	VLQ0163JR68	COIL 0. 68UH	1	
L52701	VLQ0163JR68	COIL 0. 68UH	1	
L52702	VLQ0163J1R0	COIL 1UH	1	
L52703, 04	VLQ0163J101	COIL 100UH	2	
L52741	VLQ0163JR68	COIL 0. 68UH	1	
L52742	VLQ0163JR39	COIL 0. 39UH	1	
L52743	VLQ0163JR33	COIL 0. 33UH	1	
L52744	VLQ0163JR68	COIL 0. 68UH	1	
L52745	VLQ0163JR39	COIL 0. 39UH	1	
L52746	VLQ0163JR33	COIL 0. 33UH	1	
L52747, 48	VLQ0163JR22	COIL 0. 22UH	2	
L52749	VLQ0163JR68	COIL 0. 68UH	1	
P52001	VJP4064L080	CONNECTOR (MALE)	1	
P52002	VJS3900C013	CONNECTOR (FEMALE)	1	
P52003	VJS3900A024	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P52004	VJP2278	CONNECTOR (MALE)	1	
P52005	VJP3950A009	CONNECTOR (MALE)	1	
P52006	VJP2278	CONNECTOR (MALE)	1	
P52007	VJP3950A009	CONNECTOR (MALE)	1	
Q52001, 02	2SB1114	TRANSISTOR	2	
Q52003	2SD1280-S	TRANSISTOR	1	
Q52004	2SB1218A-R	TRANSISTOR	1	
Q52005	2SD1280-S	TRANSISTOR	1	
Q52006	2SB1218A-R	TRANSISTOR	1	
Q52101	2SB709A-R	TRANSISTOR	1	
Q52102, 03	2SC3735B35	TRANSISTOR	2	
Q52111	2SB709A-R	TRANSISTOR	1	
Q52112, 13	2SC3735B35	TRANSISTOR	2	
Q52121	2SB709A-R	TRANSISTOR	1	
Q52122, 23	2SC3735B35	TRANSISTOR	2	
Q52131	2SB709A-R	TRANSISTOR	1	
Q52132, 33	2SC3735B35	TRANSISTOR	2	
Q52171	2SB709A-R	TRANSISTOR	1	
Q52172	2SD601A-R	TRANSISTOR	1	
Q52201	2SC3935	TRANSISTOR	1	
Q52202	2SA1532-B	TRANSISTOR	1	
Q52203	2SK508K512	TRANSISTOR	1	
Q52204	2SC2954	TRANSISTOR	1	
Q52205	2SA1532-B	TRANSISTOR	1	
Q52206, 07	2SC2954	TRANSISTOR	2	
Q52208	2SK508K512	TRANSISTOR	1	
Q52209	2SC3935	TRANSISTOR	1	
Q52231	2SA1532-B	TRANSISTOR	1	
Q52232, 33	XN1504	TRANSISTOR-RESISTOR	2	
Q52234, 35	2SD1979	TRANSISTOR	2	
Q52251	2SA1532-B	TRANSISTOR	1	
Q52252, 53	XN1504	TRANSISTOR-RESISTOR	2	
Q52254, 55	2SD1979	TRANSISTOR	2	
Q52301	2SC3935	TRANSISTOR	1	
Q52302	2SA1532-B	TRANSISTOR	1	
Q52303	2SK508K512	TRANSISTOR	1	
Q52304	2SC2954	TRANSISTOR	1	
Q52305	2SA1532-B	TRANSISTOR	1	
Q52306, 07	2SC2954	TRANSISTOR	2	
Q52308	2SK508K512	TRANSISTOR	1	
Q52309	2SC3935	TRANSISTOR	1	
Q52331	2SA1532-B	TRANSISTOR	1	
Q52332, 33	XN1504	TRANSISTOR-RESISTOR	2	
Q52334, 35	2SD1979	TRANSISTOR	2	
Q52351	2SA1532-B	TRANSISTOR	1	
Q52352, 53	XN1504	TRANSISTOR-RESISTOR	2	
Q52354, 55	2SD1979	TRANSISTOR	2	
Q52405	2SC3930-B	TRANSISTOR	1	
Q52406	XN6537	TRANSISTOR-RESISTOR	1	
Q52407	2SC3930-B	TRANSISTOR	1	
Q52408	XN5531	TRANSISTOR-RESISTOR	1	
Q52409, 10	2SK508K512	TRANSISTOR	2	
Q52411, 12	2SC3930-B	TRANSISTOR	2	
Q52441	2SC3930-B	TRANSISTOR	1	
Q52442	XN5531	TRANSISTOR-RESISTOR	1	
Q52443-49	2SD1979	TRANSISTOR	7	
Q52450-52	2SC3930-B	TRANSISTOR	3	
Q52453	2SD1979	TRANSISTOR	1	
Q52454	2SC3930-B	TRANSISTOR	1	
Q52455	2SD1979	TRANSISTOR	1	
Q52456, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q52505	2SC3930-B	TRANSISTOR	1	
Q52506	XN6537	TRANSISTOR-RESISTOR	1	
Q52507	2SC3930-B	TRANSISTOR	1	
Q52508	XN5531	TRANSISTOR-RESISTOR	1	
Q52509, 10	2SK508K512	TRANSISTOR	2	
Q52511, 12	2SC3930-B	TRANSISTOR	2	
Q52541	2SC3930-B	TRANSISTOR	1	
Q52542	XN5531	TRANSISTOR-RESISTOR	1	
Q52543-49	2SD1979	TRANSISTOR	7	
Q52550-52	2SC3930-B	TRANSISTOR	3	
Q52553	2SD1979	TRANSISTOR	1	
Q52554	2SC3930-B	TRANSISTOR	1	
Q52555	2SD1979	TRANSISTOR	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q52556, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q52605	2SC3930-B	TRANSISTOR	1	
Q52606	XN6537	TRANSISTOR-RESISTOR	1	
Q52607	2SC3930-B	TRANSISTOR	1	
Q52608	XN5531	TRANSISTOR-RESISTOR	1	
Q52609, 10	2SK508K512	TRANSISTOR	2	
Q52611, 12	2SC3930-B	TRANSISTOR	2	
Q52641	2SC3930-B	TRANSISTOR	1	
Q52642	XN5531	TRANSISTOR-RESISTOR	1	
Q52643-49	2SD1979	TRANSISTOR	7	
Q52650-52	2SC3930-B	TRANSISTOR	3	
Q52653	2SD1979	TRANSISTOR	1	
Q52654	2SC3930-B	TRANSISTOR	1	
Q52655	2SD1979	TRANSISTOR	1	
Q52656, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q52705	2SC3930-B	TRANSISTOR	1	
Q52706	XN6537	TRANSISTOR-RESISTOR	1	
Q52707	2SC3930-B	TRANSISTOR	1	
Q52708	XN5531	TRANSISTOR-RESISTOR	1	
Q52709, 10	2SK508K512	TRANSISTOR	2	
Q52711, 12	2SC3930-B	TRANSISTOR	2	
Q52741	2SC3930-B	TRANSISTOR	1	
Q52742	XN5531	TRANSISTOR-RESISTOR	1	
Q52743-49	2SD1979	TRANSISTOR	7	
Q52750-52	2SC3930-B	TRANSISTOR	3	
Q52753	2SD1979	TRANSISTOR	1	
Q52754	2SC3930-B	TRANSISTOR	1	
Q52755	2SD1979	TRANSISTOR	1	
Q52756, 57	XN1504	TRANSISTOR-RESISTOR	2	
Q52902-04	2SB1218A-R	TRANSISTOR	3	
Q52906-08	2SB1218A-R	TRANSISTOR	3	
Q52910	2SB1218A-R	TRANSISTOR	1	
QR52001, 02	UN5213	TRANSISTOR-RESISTOR	2	
QR52101	UN5213	TRANSISTOR-RESISTOR	1	
QR52111	UN5213	TRANSISTOR-RESISTOR	1	
QR52121	UN5213	TRANSISTOR-RESISTOR	1	
QR52131	UN5213	TRANSISTOR-RESISTOR	1	
R52001	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R52002	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52003	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R52004	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52005	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52006	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52007	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52008	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52009, 10	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R52041-44	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52051-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52061-64	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52071-74	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52101, 02	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R52103	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R52104	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52105	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52106	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52107	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R52108	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52109	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52110	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52111, 12	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R52113	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R52114	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52115	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52116	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52117	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R52118	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52119	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52120	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52121, 22	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R52123	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R52124	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52125	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52126	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52127	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R52128	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52129	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52130	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52131, 32	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	
R52133	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1	
R52134	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52135	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52136	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52137	ERJ6GEYG680	M. RESISTOR CH 1/10W 68	1	
R52138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52139	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52140	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52141	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52142	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52143	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52144	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52145	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52146	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52147	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52148	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52151-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52155, 56	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R52158	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52161-64	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52168	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52171	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52172	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R52173	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R52174, 75	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R52201	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52202, 03	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R52205, 06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52207, 08	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R52209	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52210	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52211	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52212, 13	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R52214	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52215	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R52216, 17	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52218	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52219	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52220	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R52221	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52222	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R52223	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52224	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R52225	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R52226	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52231, 32	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R52233	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52234-37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R52238, 39	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52240	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52241	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52242	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52243	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52251, 52	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R52253	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52254-57	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R52258, 59	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52260	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52261	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52262	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52263	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52301	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52302, 03	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	
R52305, 06	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52307, 08	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	
R52309	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52310	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52311	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R52312, 13	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
R52314	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52315	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R52316, 17	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52318	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52319	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52320	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R52321	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52322	ERJ12YJ270	M. RESISTOR CH 1/2W 270	1	
R52323	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52324	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52325	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R52326	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52331, 32	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R52333	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52334-37	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R52338, 39	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52340	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52341	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52342	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52343	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52351, 52	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	2	
R52353	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52354-57	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4	
R52358, 59	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52360	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52361	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52362	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52363	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52407, 08	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52409-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52412	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52413	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52414	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R52415	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52416	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52417	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52418, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52420, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52422, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52424	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52425	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R52426	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52427	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52428, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52430	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52431	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52432, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52434	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52437	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52439	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52440	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52441-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52444-46	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	3	
R52447-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52450	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52451, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52453	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52454	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52455, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52457, 58	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52459-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R52463	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52464	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52465	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52466-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52469	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52470	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52471	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52472	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52473	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52474	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52475, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R52477	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52478	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52479	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R52480	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52481	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52482, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52484	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R52486	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52487	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52488, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R52490, 91	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52492-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52495	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52496	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52497	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52498	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52499	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52507, 08	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52509-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52512	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52513	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52514	ERJ3RED820	M. RESISTOR CH 1/16W 82	1	
R52515	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52516	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52517	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52518, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52520, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52522, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52524	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52525	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R52526	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52527	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52528, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52530	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52531	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52532, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52534	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52537	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52539	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52540	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52541-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52544-46	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	3	
R52547-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52550	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52551, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52553	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52554	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52555, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52557, 58	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52559-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R52563	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52564	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52565	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52566-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52569	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52570	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52571	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52572	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52573	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52574	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52575, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R52577	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52578	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52579	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R52580	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52581	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52582, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52584	ERJ3GEYJ000	M. RESISTOR CH 1/16W 0	1	
R52586	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52587	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52588, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R52590, 91	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52592-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52595	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52596	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52597	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52598	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52599	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52607, 08	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R52609-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52612	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52613	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52614	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R52615	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52616	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52617	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52618, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52620, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52622, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52624	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52625	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R52626	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52627	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R52628, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52630	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52631	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52632, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52634	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52637	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52639	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52640	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52641-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52644-46	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	3	
R52647-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52650	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52651, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52653	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52654	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52655, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52657, 58	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52659-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R52663	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52664	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52665	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52666-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52669	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52670	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52671	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52672	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52673	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52674	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52675, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R52677	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52678	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52679	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R52680	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52681	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52682, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52684	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R52686	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52687	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52688, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R52690, 91	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52692-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52695	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52696	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52697	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52698	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52699	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52707, 08	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52709-11	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52712	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52713	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52714	ERJ3RED680	M. RESISTOR CH 1/16W 68	1	
R52715	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52716	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R52717	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52718, 19	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R52720, 21	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52722, 23	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	2	
R52724	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52725	ERJ3RBD391	M. RESISTOR CH 1/16W 390	1	
R52726	ERJ3RBD181	M. RESISTOR CH 1/16W 180	1	
R52727	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R52728, 29	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52730	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52731	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52732, 33	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52734	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R52737	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52739	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52740	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52741-43	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52744-46	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	3	
R52747-49	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52750	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52751, 52	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52753	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52754	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52755, 56	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2	
R52757, 58	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52759-62	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	4	
R52763	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52764	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52765	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52766-68	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52769	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52770	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52771	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52772	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R52773	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52774	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R52775, 76	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	2	
R52777	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	
R52778	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52779	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180	1	
R52780	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52781	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52782, 83	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R52784	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R52786	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52787	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R52788, 89	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	
R52790, 91	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R52792-94	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	
R52795	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52796	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R52797	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52798	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R52799	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R52801-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R52804-06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R52811, 12	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52813	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R52814	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R52815	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52816	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R52817-19	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	3	
R52821, 22	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52823	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R52824	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R52825	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52826	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1	
R52827-29	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	3	
R52831	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52832	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R52833, 34	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52835	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R52836, 37	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52838	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R52839	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R52841	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52842	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R52843, 44	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52845	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R52846, 47	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52848	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R52849	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R52851	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R52852	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R52853, 54	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52855	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R52856, 57	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52858	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R52859	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R52861	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1	
R52862	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R52863, 64	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52865	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	
R52866, 67	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	
R52868	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1	
R52869	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
R52871-74	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R52901	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52916-19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R52921, 22	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R52926-28	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	3	
R52931-33	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	3	
R52936, 37	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R52938-41	ERJ3GEYJ101	M. RESISTOR CH 1/16W 10K	4	
R52942, 43	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
R52952-63	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	12	
R52964	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R52965	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R52966	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	
R52967	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
TG52201	EYF6CU	TEST POINT	1	
TP52201	EYF6CU	TEST POINT	1	
TP52301	EYF6CU	TEST POINT	1	
TP52401	EYF6CU	TEST POINT	1	
TP52501	EYF6CU	TEST POINT	1	
TP52601	EYF6CU	TEST POINT	1	
TP52701	EYF6CU	TEST POINT	1	
TP52901, 02	EYF6CU	TEST POINT	2	
		MISCELLANEOUS		
	VMP6226	P. C. BOARD HOLDER ANGLE	2	
	XYN3+K8	SCREW	2	
	XSB2+6FX	SCREW	2	
■ E32	VEP86290B	MAIN CONTROL P. C. BOARD	1 (RTL)	
C21102	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21103	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21104, 05	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C21106	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21107	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21108	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C21109	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C21110, 11	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C21112	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21113, 14	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C21115-22	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	8	
C21201-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C21205	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21206	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21209-12	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C21401	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21402	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C21403	ECKFH391KB	C. CAPACITOR 50V 390P	1	
C21502	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21503	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21504, 05	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C21506	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21507	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21508	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C21509	EEVHB1C100	E. CAPACITOR 16V 10U	1	
C21510, 11	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C21512	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21513, 14	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	2	
C21515-22	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	8	
C21601-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C21605	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21606	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C21609-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C21801	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C21802	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C21803	ECKFH391KB	C. CAPACITOR 50V 390P	1	
C21901	ECU1C104J	P. CAPACITOR 16V 0.1U	1	
C21902	EEVHB1H3R3	E. CAPACITOR 50V 3.3U	1	
C21903	ECUM1C334ZFN	C. CAPACITOR CH 16V 0.33U	1	
C21904-06	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C21907-10	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	4	
C21911-16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C60001-04	VCK0152	C. CAPACITOR	4	
C60005, 06	EEVHB0J470	E. CAPACITOR 6.3V 47U	2	
C60007, 08	EEVHB1C470	E. CAPACITOR 16V 47U	2	
C60009	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C60101, 02	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C60103	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C60104	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C60105-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C60109	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C60110-24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	15	
C60201-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C60300	VCK0152	C. CAPACITOR	1	
C60301	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C60302	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C60303, 04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C60305	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C60306	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C60307	VCK0152	C. CAPACITOR	1	
C60308-10	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C60311	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C60314	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
C60315	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C60316	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C60317	VCK0152	C. CAPACITOR	1	
C60319	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C60320	VCK0152	C. CAPACITOR	1	
C60321-23	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C60324	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C60325	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C60326	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C60327, 28	ECST1CX156Z	T. CAPACITOR CH 16V 15U	2	
C60329, 30	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C60331	VCK0152	C. CAPACITOR	1	
C60332	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C60401-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C60501-03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C60504	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C60505	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C60506	ECUX1E105KBP	C. CAPACITOR CH 25V 1U	1	
C60507	ECUX1C106KBP	C. CAPACITOR CH 16V 10U	1	
C60508, 09	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C60510, 11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C60602, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C60604	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C60605-17	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	13	
C60618-21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C60701, 02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C60703, 04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C60801-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C60809	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C60810	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C60901-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	7	
C62101, 02	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	2	
C62103	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C62104	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	
C62105-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C62110-24	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	15	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C62125	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
C62201-04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	4	
C62300	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C62301	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C62302	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C62303	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C62304	ECUX1H050CCV	C. CAPACITOR CH 50V 5P	1	
C62305-07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	3	
C62308	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	
C62309	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C62311	VCK0152	C. CAPACITOR	1	
C62312	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	
C62313	VCK0152	C. CAPACITOR	1	
C62314-16	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C62317	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	1	
C62318	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	
C62319	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C62320, 21	ECST1CX156Z	T. CAPACITOR CH 16V 15U	2	
C62322, 23	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C62324	VCK0152	C. CAPACITOR	1	
C62325	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C62401-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	
C62501-04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C62505	EEVHB0J330	E. CAPACITOR 6.3V 33U	1	
C62506, 07	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C62508	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C62602, 03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C62605-17	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	13	
C62618-21	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4	
C62701, 02	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
C62703, 04	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C62801-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	8	
C62809	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C62810	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C62901-07	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	7	
C63001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65001-15	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	15	
C65016	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C65017	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65018-20	EEVHB1C470	E. CAPACITOR 16V 47U	3	
C65021	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C65022	EEVHB1C470	E. CAPACITOR 16V 47U	1	
C65023	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C65024	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65025	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C65026	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65027	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1	
C65028	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65101, 02	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C65103-08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	
C65109, 10	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C65111	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C65201, 02	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2	
C65203-13	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	11	
C65301-15	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	15	
C65401-03	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3	
C65501	ECST1CX156Z	T. CAPACITOR CH 16V 15U	1	
D21901-05	MA143	DIODE	5	
D60101	MA142K	DIODE	1	
D60300-02	MA157	DIODE	3	
D60402	MA143	DIODE	1	
D60501	MA142K	DIODE	1	
D60502-06	MA142WK	DIODE	5	
D60600-26	MA143	DIODE	27	
D60627	LN1251CAL	DIODE	1	
D60628	MA143	DIODE	1	
D62300	MA157	DIODE	1	
D62402	MA143	DIODE	1	
D62501-05	MA142WK	DIODE	5	
D62601-12	MA143	DIODE	12	
D62614-25	MA143	DIODE	12	
D62626	LN1251CAL	DIODE	1	
D62627	MA143	DIODE	1	
D65501, 02	MTMA152K	DIODE	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL60001-04	VLF1312	FILTER	4	
FL60301	VLF1016A223	FILTER	1	
FL62300	VLF1016A223	FILTER	1	
IC21102	MN1030F04K	IC	1	
IC21103, 04	TC7SHU04FU	IC	2	
IC21201	X9144L7T100	IC	1	
IC21202	IDT71V321L5F	IC	1	
IC21203	TVHC14FT	IC	1	
IC21206, 07	TC7SH14FU	IC	2	
IC21401	XC62FP3302P	IC	1	
IC21502	MN1030F04K	IC	1	
IC21503, 04	TC7SHU04FU	IC	2	
IC21601	X9144L7T100	IC	1	
IC21602	IDT71V321L5F	IC	1	
IC21603	TVHC541FT	IC	1	
IC21604	TVHC14FT	IC	1	
IC21606, 07	TC7SH14FU	IC	2	
IC21801	XC62FP3302P	IC	1	
IC21901	X9036L7V64	IC	1	
IC21902	TL7705GPSB	IC	1	
IC21903	S80830ANUP	IC	1	
IC21904	TVHC32FT	IC	1	
IC21905	TVHT541FT	IC	1	
IC60101	M32160F4UFP	IC	1	
IC60102	XC62FP3302M	IC	1	
IC60103	TVHC126FT	IC	1	
IC60104, 05	TC7SH04FU	IC	2	
IC60201	X9144L7T144	IC	1	
IC60301	MN51040VPI	IC	1	
IC60302	TC7W32FU	IC	1	
IC60303	UPC393G2	IC	1	
IC60304	TA75W558FU	IC	1	
IC60305	NJM2068MD	IC	1	
IC60307	TA75W558FU	IC	1	
IC60308	XC62DN5002P	IC	1	
IC60401	TVHC14FT	IC	1	
IC60402	TVHC04FT	IC	1	
IC60403	UPC393G2	IC	1	
IC60404	TVHC14FT	IC	1	
IC60501	TVHC123FT	IC	1	
IC60502	TVHC08FT	IC	1	
IC60503, 04	MC14538BF	IC	2	
IC60505	TVHC32FT	IC	1	
IC60506	TVHC08FT	IC	1	
IC60601	TVHC541FT	IC	1	
IC60602, 03	TVHT541FT	IC	2	
IC60604	TC7W241FU	IC	1	
IC60701, 02	IDT71V124SAP	IC	2	
IC60801	TLCX245FT	IC	1	
IC60803-06	TVHC541FT	IC	4	
IC60807	TLCX32FT	IC	1	
IC60808	TVHC541FT	IC	1	
IC60809	TLCX04F	IC	1	
IC60901	LVX3245QSC	IC	1	
IC60902-04	TVHT541FT	IC	3	
IC60905	TVHC139FT	IC	1	
IC60906	TVHC32FT	IC	1	
IC62101	M32160F4UFP	IC	1	
IC62102	TC7SH04FU	IC	1	
IC62103	TVHC126FT	IC	1	
IC62104	TC7SH04FU	IC	1	
IC62105	XC62FP3302M	IC	1	
IC62201	X9144L7T144	IC	1	
IC62301	MN51040VPI	IC	1	
IC62302	TC7W32FU	IC	1	
IC62304	XC62DN5002P	IC	1	
IC62305	NJM2068MD	IC	1	
IC62307	TA75W558FU	IC	1	
IC62401	TVHC14FT	IC	1	
IC62402	TVHC04FT	IC	1	
IC62403	UPC393G2	IC	1	
IC62404	TVHC14FT	IC	1	
IC62501	TVHC123FT	IC	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC62502	TVHC08FT	IC	1	
IC62503	MC14538BF	IC	1	
IC62505	TVHC32FT	IC	1	
IC62506	TVHC08FT	IC	1	
IC62601	TVHC541FT	IC	1	
IC62602, 03	TVHT541FT	IC	2	
IC62604	TC7W241FU	IC	1	
IC62701, 02	IDT71V124SAP	IC	2	
IC62801	TLCX245FT	IC	1	
IC62803-06	TVHC541FT	IC	4	
IC62807	TLCX32FT	IC	1	
IC62808	TVHC541FT	IC	1	
IC62809	TLCX04F	IC	1	
IC62901	LVX3245QSC	IC	1	
IC62902-04	TVHT541FT	IC	3	
IC62905	TVHC139FT	IC	1	
IC62906	TVHC32FT	IC	1	
IC63001	IDT71V321L5F	IC	1	
IC65001	MBF8TA90PFTS	IC	1	
IC65002	D703003GC017	IC	1	
IC65003	STK14C88N45	IC	1	
IC65004	UPD72001GC11	IC	1	
IC65005	TC7SH04FU	IC	1	
IC65006, 07	TVHC573FT	IC	2	
IC65008	TVHC04FT	IC	1	
IC65009	TVHC14FT	IC	1	
IC65010, 11	TVHC32FT	IC	2	
IC65012	TVHC393FT	IC	1	
IC65101, 02	IDT71321L55F	IC	2	
IC65103	TVHC138FT	IC	1	
IC65104	TVHC573FT	IC	1	
IC65105	TVHT541FT	IC	1	
IC65106	TVHC11FT	IC	1	
IC65107	TVHC245FT	IC	1	
IC65108	TVHC32FT	IC	1	
IC65109	TVHC541FT	IC	1	
IC65201	UPC339G2	IC	1	
IC65202	TE7751	IC	1	
IC65203	TVHC04FT	IC	1	
IC65204, 05	TVHC11FT	IC	2	
IC65206	TVHC32FT	IC	1	
IC65207	MC14015BF	IC	1	
IC65208	MC14013BF	IC	1	
IC65209, 10	MC14516BF	IC	2	
IC65301, 02	ADM202JRN	IC	2	
IC65303, 04	SN75C1168NS	IC	2	
IC65305-07	TVHC126FT	IC	3	
IC65401	TVHC138FT	IC	1	
IC65402, 03	TVHC273FT	IC	2	
ID21102	VVVS13178E	IC	1	
ID21201	VVVS13304	IC	1	
ID21502	VVVS13178E	IC	1	
ID21601	VVVS13304	IC	1	
ID21901	VVVS13304	IC	1	
ID60101	VVVS13177D	IC	1	
ID60101 02	VVVS13336	IC	1	
ID60201	VVVS13304	IC	1	
ID62101	VVVS13177D	IC	1	
ID62101 02	VVVS13336	IC	1	
ID62201	VVVS13304	IC	1	
ID65001	VVVS13337E	IC	1	
IP500	X9144L7T100	IC	1	
L60101	VLP0155	COIL	1	
L60801-09	VLP0155	COIL	9	
L60811-14	VLP0155	COIL	4	
L60816-43	VLP0155	COIL	28	
L62101	VLP0155	COIL	1	
L62801-43	VLP0155	COIL	43	
L65001	VLQ0319K100	COIL 10UH	1	
P21301	VJS3791B050	CONNECTOR (FEMALE)	1	
P21302	VJS3791B020	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P21401	VJP3949C070H	CONNECTOR (MALE)	1	
P21601	VJP3125B008	CONNECTOR (MALE)	1	
P21701	VJS3791B050	CONNECTOR (FEMALE)	1	
P21702	VJS3791B020	CONNECTOR (FEMALE)	1	
P21801	VJP3949C070H	CONNECTOR (MALE)	1	
P60001-04	VJS4313D080	CONNECTOR (FEMALE)	4	
P60005	VJS3406B009	CONNECTOR (FEMALE)	1	
P60101	VJS3791B020	CONNECTOR (FEMALE)	1	
P61001	VJS3791B050	CONNECTOR (FEMALE)	1	
P61002	VJS3791B030	CONNECTOR (FEMALE)	1	
P62001	VJS3791B050	CONNECTOR (FEMALE)	1	
P62002	VJS3791B030	CONNECTOR (FEMALE)	1	
P62101	VJS3791B020	CONNECTOR (FEMALE)	1	
P65503	VJP1243T	CONNECTOR (MALE) 3P	1	
P65504	VJP1246T	CONNECTOR (MALE) 6P	1	
P65506, 07	VJS3791B020	CONNECTOR (FEMALE)	2	
P65508, 09	VJP1243T	CONNECTOR (MALE) 3P	2	
P65510	VJS3791B020	CONNECTOR (FEMALE)	1	
Q60300	2SB709A-R	TRANSISTOR	1	
Q60601	2SC3930-B	TRANSISTOR	1	
Q62300	2SB709A-R	TRANSISTOR	1	
Q62602	2SC3930-B	TRANSISTOR	1	
QR60101	UN5213	TRANSISTOR-RESISTOR	1	
QR60402	UN5213	TRANSISTOR-RESISTOR	1	
QR60501-26	UN5214	TRANSISTOR-RESISTOR	26	
QR60600, 01	UN5213	TRANSISTOR-RESISTOR	2	
QR62401	UN5213	TRANSISTOR-RESISTOR	1	
QR62501-25	UN5214	TRANSISTOR-RESISTOR	25	
QR65401-12	UN2214	TRANSISTOR-RESISTOR	12	
R21106	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21108	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21119	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R21121-25	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5	
R21126	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R21127	ERJ3GEYJ301	M. RESISTOR CH 1/16W 300	1	
R21128	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R21129	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21138	ERJ3GEYJ120	M. RESISTOR CH 1/16W 12	1	
R21144-47	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R21154-56	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R21165, 66	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R21167, 68	EXB24V473J	COMBI. R-R 47K	2	
R21170-81	EXB24V473J	COMBI. R-R 47K	12	
R21182	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21184, 85	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R21188	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R21189	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21190	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R21204	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21205	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21209	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21210-12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R21213	ERJ3GEYJ152	M. RESISTOR CH 1/16W 1.5K	1	
R21214-17	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	4	
R21218, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R21401	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	1	
R21402-22	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	21	
R21506	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21508	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21519	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R21521-25	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5	
R21526	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R21527	ERJ3GEYJ301	M. RESISTOR CH 1/16W 300	1	
R21528	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R21529	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R21538	ERJ3GEYJ120	M. RESISTOR CH 1/16W 12	1	
R21544-47	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R21554-56	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R21565, 66	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R21567, 68	EXB24V473J	COMBI. R-R 47K	2	
R21570-81	EXB24V473J	COMBI. R-R 47K	12	
R21582-84	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R21586	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R21589	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R21590	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R21601-03	ERJ3GEYG472	M. RESISTOR CH 1/16W 4. 7K	3	
R21604	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21605	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R21609	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21610-12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R21613	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R21614-17	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	4	
R21618, 19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R21620-22	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R21801	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2. 7K	1	
R21802-22	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	21	
R21901	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R21903	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R21904	ERDS2TJ102	C. RESISTOR 1/4W 1K	1	
R21905-12	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8	
R21913, 14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R21915, 16	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	2	
R21917-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R21921	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R21922, 23	EXB24V103J	COMBI. R-R 10K	2	
R21924	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R21925-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R60101	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R60102, 03	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60104-08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R60109, 10	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60112	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60113	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R60116	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60117	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60118, 19	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60122	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60123	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60191	EXB24V473J	COMBI. R-R 47K	1	
R60192, 93	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60196	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60197	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60199	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60202-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R60208-10	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	3	
R60211-14	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R60215	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60300	ERJ3RBD133	M. RESISTOR CH 1/16W 13K	1	
R60301, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60303	ERJ3GEYJ433	M. RESISTOR CH 1/16W 43K	1	
R60304-07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R60308	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60309, 10	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60311	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R60312	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R60313	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R60314	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R60315	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60316	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60317, 18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60319	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60320	ERJ3GEYJ824	M. RESISTOR CH 1/16W 820K	1	
R60321-28	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R60329, 30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60331	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60332	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60334	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60335, 36	ERJ3RBD332	M. RESISTOR CH 1/16W 3. 3K	2	
R60337	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60339, 40	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R60341	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60342	ERJ3RBD272	M. RESISTOR CH 1/16W 2. 7K	1	
R60343	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60344, 45	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R60346	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R60347	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60348	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R60349	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R60350	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R60351	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R60352	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R60353	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R60354	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60401	EXB24V473J	COMBI. R-R 47K	1	
R60402, 03	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60404	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60405	EXB24V473J	COMBI. R-R 47K	1	
R60406, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60408-11	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R60412	EXB24V473J	COMBI. R-R 47K	1	
R60413, 14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60417-20	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R60421, 22	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60423	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60424	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60426, 27	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60429, 30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60431	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60432-34	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R60435	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60436	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R60437	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60439	EXB24V473J	COMBI. R-R 47K	1	
R60440, 41	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60442	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R60443-50	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	8	
R60451	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60452	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60453	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60454, 55	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R60456-58	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R60459	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60460	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R60461-63	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R60464	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60465-67	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R60468	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60469	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60470	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60471	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60472	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60473	ERJ3GEYG332	M. RESISTOR CH 1/16W 3. 3K	1	
R60474	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60475	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60476, 77	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R60501-05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R60506-13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R60514-17	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R60518	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60519	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
R60520	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
R60521, 22	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	2	
R60523-28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R60529, 30	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60531-37	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R60601	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2. 2K	1	
R60602, 03	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60604-18	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	15	
R60620	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
R60621	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60622-34	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	13	
R60635	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60636	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60637, 38	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60639-49	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	11	
R60650, 51	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60652	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60653	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R60654	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60655, 56	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2	
R60657-60	EXB24V473J	COMBI. R-R 47K	4	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R60661-63	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R60801	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R60804-07	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R60808-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R60811-19	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	9	
R60820	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R60822, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R60824	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R60825-30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R60891-94	EXB24V473J	COMBI. R-R 47K	4	
R60901	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R60903-05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R60906-09	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R60910, 11	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R60912-15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R60981-84	EXB24V473J	COMBI. R-R 47K	4	
R60990-99	EXB24V473J	COMBI. R-R 47K	10	
R62101	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R62102, 03	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R62104-08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R62109, 10	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R62113	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R62115	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62117, 18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62121	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62191	EXB24V473J	COMBI. R-R 47K	1	
R62192, 93	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62196	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R62197	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62199	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62202-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R62208-10	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	3	
R62211-16	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R62217	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62300-07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R62308	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R62309-17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	9	
R62318-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R62321	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62323	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62324, 25	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	
R62326	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R62328, 29	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	
R62330	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62331	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	1	
R62332	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62333, 34	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	2	
R62335	ERJ3RED470	M. RESISTOR CH 1/16W 47	1	
R62336	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62337	ERJ3RBD333	M. RESISTOR CH 1/16W 33K	1	
R62338	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R62339	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R62340	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R62341	ERJ3RBD683	M. RESISTOR CH 1/16W 68K	1	
R62342	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1	
R62343	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62344, 45	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R62401	EXB24V473J	COMBI. R-R 47K	1	
R62402, 03	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R62404	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62405	EXB24V473J	COMBI. R-R 47K	1	
R62406, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R62408-11	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R62412	EXB24V473J	COMBI. R-R 47K	1	
R62413, 14	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R62415	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62417-20	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R62421, 22	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62423	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62425, 26	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62427, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62429	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62430, 31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62432	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62433	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R62434	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R62435	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62437	EXB24V473J	COMBI. R-R 47K	1	
R62438, 39	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62440	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	
R62441-46	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	
R62447	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62448, 49	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62450	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62451-54	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R62455, 56	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	2	
R62457	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62458	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R62459-63	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5	
R62464	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R62465-67	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R62468	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62469	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62470	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62471	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62472	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62473	ERJ3GEYJ332	M. RESISTOR CH 1/16W 3.3K	1	
R62474	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62475	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62476, 77	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62501-05	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	5	
R62506-13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8	
R62514, 15	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R62516	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62517, 18	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	2	
R62519-24	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R62525, 26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R62527-33	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R62603	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R62604	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62605	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62607	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62608-22	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	15	
R62625	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62626-38	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	13	
R62641	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62643-51	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	9	
R62652	ERJ3GEYJ301	M. RESISTOR CH 1/16W 300	1	
R62653, 54	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62655-58	EXB24V473J	COMBI. R-R 47K	4	
R62660, 61	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2	
R62662-64	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R62801	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R62804-07	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	4	
R62808-10	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R62811-19	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	9	
R62820	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R62822, 23	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R62824	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R62825-30	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	6	
R62891-94	EXB24V473J	COMBI. R-R 47K	4	
R62901	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R62903-05	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3	
R62906, 07	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R62908-15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
R62981-84	EXB24V473J	COMBI. R-R 47K	4	
R62990-99	EXB24V473J	COMBI. R-R 47K	10	
R63005-79	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	75	
R63080-00	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	21	
R63151	EXB24V103J	COMBI. R-R 10K	1	
R65001-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R65005	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65007, 08	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R65009	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R65010-13	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R65014, 15	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R65016-18	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	3	
R65019, 20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R65023-31	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	9	
R65034	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R65036	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65037	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	1	
R65039, 40	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R65041	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65042	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65043-48	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	
R65050	ERDS2TJ103	C. RESISTOR 1/4W 10K	1	
R65101	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R65102-04	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	3	
R65105	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R65106-12	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	7	
R65113-16	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	
R65117-20	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R65121-23	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R65201, 02	ERJ3GEY472	M. RESISTOR CH 1/16W 4.7K	2	
R65205, 06	ERJ3GEY472	M. RESISTOR CH 1/16W 4.7K	2	
R65207-10	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	4	
R65211	ERJ3GEY472	M. RESISTOR CH 1/16W 4.7K	1	
R65212	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	
R65213-16	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	4	
R65217-20	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	
R65221-28	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	8	
R65229, 30	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R65235-46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	12	
R65301, 02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R65303	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
R65304	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65306	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65307	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	1	
R65308	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65310	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65311, 12	ERJ3GEY472	M. RESISTOR CH 1/16W 4.7K	2	
R65313	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65315-18	ERJ3GEY472	M. RESISTOR CH 1/16W 4.7K	4	
R65319-26	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	8	
R65327, 28	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	2	
R65329	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65330	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65331	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65332, 33	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	
R65334	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65335	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65336	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R65337, 38	ERJ6GEYJ101	M. RESISTOR CH 1/10W 100	2	
R65341	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65342-45	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	4	
R65401-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	
R65404	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R65527-34	ERJ3GEYOR00	M. RESISTOR CH 1/16W 0	8	
SW65501	VSS0367-08B	SWITCH	1	
TG60001, 02	EYF6CU	TEST POINT	2	
TP21101-03	EYF6CU	TEST POINT	3	
TP21501-03	EYF6CU	TEST POINT	3	
TP60101	EYF6CU	TEST POINT	1	
TP60300	EYF6CU	TEST POINT	1	
TP60304, 05	EYF6CU	TEST POINT	2	
TP60307-10	EYF6CU	TEST POINT	4	
TP60601, 02	EYF6CU	TEST POINT	2	
TP61101	EYF6CU	TEST POINT	1	
TP62304-07	EYF6CU	TEST POINT	4	
TP62601, 02	EYF6CU	TEST POINT	2	
TP65001-06	EYF6CU	TEST POINT	6	
TP65101-04	EYF6CU	TEST POINT	4	
VR60601, 02	VRV0303B203A	V. RESISTOR 20K	2	
VR62601, 02	VRV0303B203A	V. RESISTOR 20K	2	
X21101	VSX0918	CRYSTAL OSCILLATOR	1	
X21501	VSX0918	CRYSTAL OSCILLATOR	1	
X60101	VSX0641	CRYSTAL OSCILLATOR	1	
X60300	VSX1001	CRYSTAL OSCILLATOR	1	
X62101	VSX0641	CRYSTAL OSCILLATOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
X62300	VSX1001	CRYSTAL OSCILLATOR	1	
X65001	VSX1034	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VK00554	MINI CARD SPACER	3	
	VJF1310	CONNECTOR HOLDER	2	
■ E33	VEP86291A	DISPLAY CONTROL P.C. BOARD	1 (RTL)	
C68001, 02	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	2	
C68003	EEVHB1E330P	E. CAPACITOR 25V 33U	1	
C68004	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	
C68101, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C68103, 04	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C68105-12	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	8	
C68302	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68303, 04	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	2	
C68305	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C68306	VCK0303K225	C. CAPACITOR 2.2U	1	
C68307	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68308, 09	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	2	
C68310	ECUM1E224KBN	C. CAPACITOR CH 25V 0.22U	1	
C68311	ECUM1H183KBN	C. CAPACITOR CH 50V 0.018U	1	
C68314, 15	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C68317	ECUM1H272KBN	C. CAPACITOR CH 50V 2700P	1	
C68318	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C68319	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68320	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C68321	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68322	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C68323	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C68324	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68325	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68329, 30	EEUFC1C331	E. CAPACITOR 16V 330U	2	
C68331, 32	EEUFC1C391	E. CAPACITOR 16V 390P	2	
C68333	EEUFC1H470	E. CAPACITOR 50V 47U	1	
C68335	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68336	VCK0303K225	C. CAPACITOR 2.2U	1	
C68337	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	1	
C68338	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68339	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C68340	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C68341, 42	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C68345	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68346	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
C68347	VCEA1DAP680	E. CAPACITOR 20V 68U	1	
C68348	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
C68351	EEUFC1C331	E. CAPACITOR 16V 330U	1	
C68401	EEVHB0J220	E. CAPACITOR 6.3V 22U	1	
C68402, 03	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C68404	EEVHB0J220	E. CAPACITOR 6.3V 22U	1	
C68405	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
D68001-03	MA153	DIODE	3	
D68004-07	M1MA152K	DIODE	4	
D68201, 02	MA4030M	MKR (MAZ40300M)	2	
D68301, 02	MA152K	DIODE	2	
D68304	MA152K	DIODE	1	
D68306	DE5SC4M-4061	DIODE	1	
D68307	SFPL-52	DIODE	1	
D68308, 09	SFPB-54	DIODE	2	
D68310	SFPL-52	DIODE	1	
D68311	MA152WK	DIODE	1	
D68312	MA3120-M	DIODE	1	
D68313, 14	MA3200-M	DIODE	2	
D68315	MA152K	DIODE	1	
D68317	DE5SC4M-4061	DIODE	1	
D68318	MA152K	DIODE	1	
D68319	MA152WK	DIODE	1	



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D68320	MA3120-M	DIODE	1	
D68321, 22	MA165	DIODE	2	
D68401	M1MA152K	DIODE	1	
FL68401	VLF1016A470	FILTER	1	
IC68001	MN1382-R	IC	1	
IC68002	VSI3338A	IC	1	
IC68101	M62353GP	IC	1	
IC68301, 02	BA9743AFV	IC	2	
IC68401	XC62AP5002P	IC	1	
L68301, 02	VLP0352	FERRITE CORE	2	
L68304	VLP0364	CHIP INDUCTOR	1	
L68305	VLQ0859M680	COIL 68UH	1	
L68307, 08	VLQ0407100M	COIL 10UH	2	
L68309	VLP0352	FERRITE CORE	1	
L68310	VLQ0504220M	COIL 22UH	1	
L68311	VLP0364	CHIP INDUCTOR	1	
L68312	VLQ0859M680	COIL 68UH	1	
L68313	VLQ0407100M	COIL 10UH	1	
P68101	VJS3826A010	CONNECTOR (FEMALE)	1	
P68102	VJS3826C030	CONNECTOR (FEMALE)	1	
P68103	VJS3826A010	CONNECTOR (FEMALE)	1	
P68104	VJS3826C030	CONNECTOR (FEMALE)	1	
P68201, 02	VJS3406D030	CONNECTOR (FEMALE)	2	
P68401	VJP3926A014	CONNECTOR (MALE)	1	
P68402	VJP3926A010	CONNECTOR (MALE)	1	
P68403, 04	VJP1231T	CONNECTOR (MALE) 4P	2	
P68405	VJS3826A020	CONNECTOR (FEMALE)	1	
P68406, 07	VJP3080	CONNECTOR (MALE)	2	
P68408-10	VJP1230T	CONNECTOR (MALE) 3P	3	
Q68301	XN4501	TRANSISTOR-RESISTOR	1	
Q68302	2SD602A-R	TRANSISTOR	1	
Q68303	2SB710A-R	TRANSISTOR	1	
Q68304	XN4401	TRANSISTOR-RESISTOR	1	
Q68305	2SD602A-R	TRANSISTOR	1	
Q68306	2SD601A-R	TRANSISTOR	1	
Q68307	2SB710A-R	TRANSISTOR	1	
Q68308	XN4401	TRANSISTOR-RESISTOR	1	
Q68310	2SJ489-4061	FET	1	
Q68311	2SK1748-Z	TRANSISTOR	1	
Q68312	2SD1819A-R	TRANSISTOR	1	
Q68313	2SD602A-R	TRANSISTOR	1	
Q68314	2SB710A-R	TRANSISTOR	1	
Q68315	XN4401	TRANSISTOR-RESISTOR	1	
Q68316	2SJ489-4061	FET	1	
Q68401	2SB710A-R	TRANSISTOR	1	
QR68301	UN2114	TRANSISTOR-RESISTOR	1	
QR68302	MUN2213	TRANSISTOR-RESISTOR	1	
QR68303, 04	UN2114	TRANSISTOR-RESISTOR	2	
QR68305, 06	MUN2112	TRANSISTOR-RESISTOR	2	
QR68307, 08	MUN2211	TRANSISTOR-RESISTOR	2	
QR68309	MUN2113	TRANSISTOR-RESISTOR	1	
QR68310, 11	UN2114	TRANSISTOR-RESISTOR	2	
QR68312	MUN2112	TRANSISTOR-RESISTOR	1	
QR68313	MUN2211	TRANSISTOR-RESISTOR	1	
QR68314, 15	UN2213	TRANSISTOR-RESISTOR	2	
R68001-05	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	5	
R68006	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R68007-09	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3	
R68010-14	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	5	
R68015-21	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	7	
R68022	ERJ6GEYG471	M. RESISTOR CH 1/10W 470	1	
R68023, 24	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
R68025-28	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	4	
R68029-31	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	3	
R68035	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68036-39	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	4	
R68040	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68041	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R68042, 43	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R68044, 45	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K	2	
R68046	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R68047-63	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	17	
R68101-03	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	3	
R68108-29	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	22	
R68201, 02	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	2	
R68208	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
R68217-54	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	38	
R68301	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R68302, 03	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	2	
R68304-06	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3	
R68307, 08	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	2	
R68309	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
R68310	ERJ6GEYF124	M. RESISTOR CH 1/10W 120K	1	
R68311	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	1	
R68312	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	
R68314	ERJ6GEYG392	M. RESISTOR CH 1/10W 3.9K	1	
R68315	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R68316	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68317	ERJ6RBD302	M. RESISTOR CH 1/10W 3K	1	
R68318	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R68320	ERJ6GEYJ820	M. RESISTOR CH 1/10W 82	1	
R68321	ERJ6RBD823	M. RESISTOR CH 1/10W 82K	1	
R68322	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68323	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68324	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68325, 26	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R68327	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R68328-30	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	3	
R68331	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68332	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R68334	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R68335	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68336	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R68338	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R68341	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68342	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68343	ERJ14RSJR10	M. RESISTOR CH 1/4W 0.1	1	
R68344	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68345	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68349	ERJ6RBD223	M. RESISTOR CH 1/10W 22K	1	
R68351	ERJ6RBD201	M. RESISTOR CH 1/10W 200	1	
R68352	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	1	
R68353	ERJ6GEYJ477	M. RESISTOR CH 1/10W 4.7K	1	
R68354	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68355	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R68356, 57	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	2	
R68358, 59	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R68360	ERJ6GEYF123	M. RESISTOR CH 1/10W 12K	1	
R68362	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R68363	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68364	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68365	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68366	ERJ6GEYG330	M. RESISTOR CH 1/10W 33	1	
R68367-69	ERJL14KJ50M	M. RESISTOR CH 1/4W 5	3	
R68371	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R68372	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R68374	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68376	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68378	ERJ6RBD223	M. RESISTOR CH 1/10W 22K	1	
R68379	ERJ6RBD201	M. RESISTOR CH 1/10W 200	1	
R68380	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	1	
R68381, 82	EROS2CKF1502	M. RESISTOR CH 1/4W 15K	2	
R68383	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R68385, 86	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	2	
R68401-05	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	5	
R68407-10	ERJ8GEYOR00	M. RESISTOR CH 1/8W 0	4	
R68411-26	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	16	
R68428, 29	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	2	
R68430	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R68431	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R68432	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	
R68434	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1	
R68435	ERJ6GEYOR00	M. RESISTOR CH 1/10W 0	1	



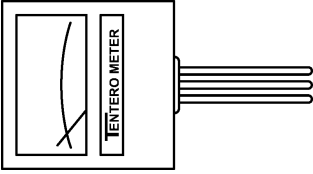
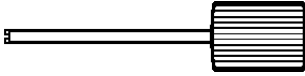
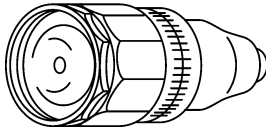
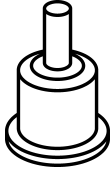
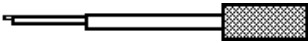
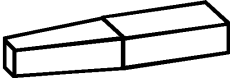
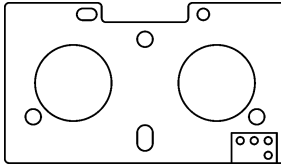
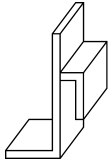
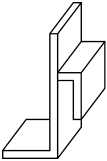
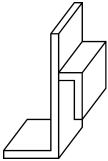
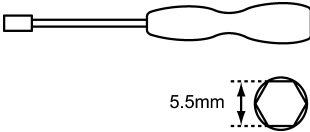
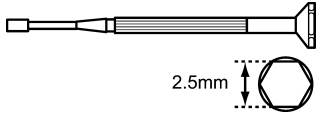
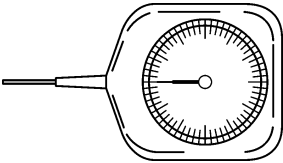
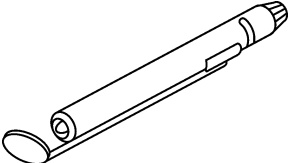
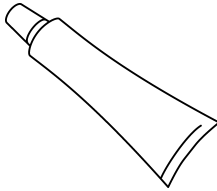
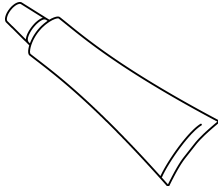
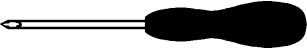
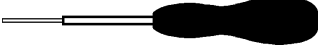
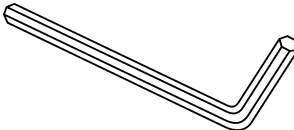
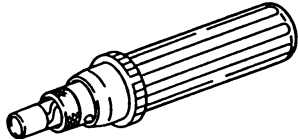




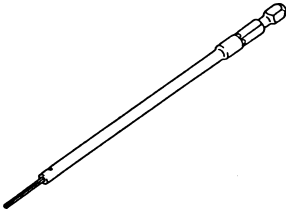
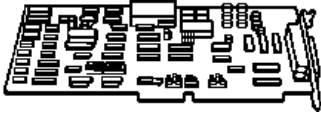
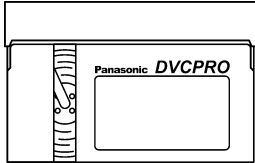
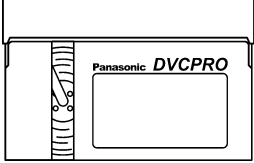
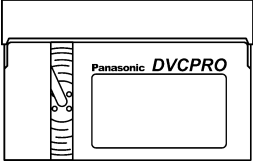
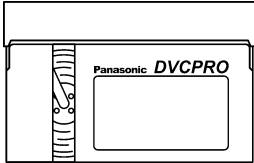
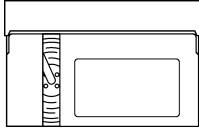
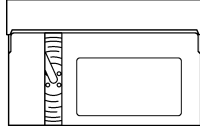
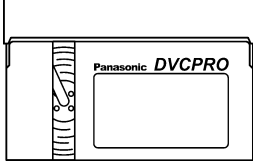
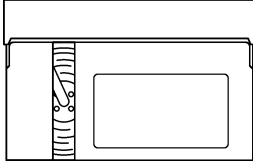
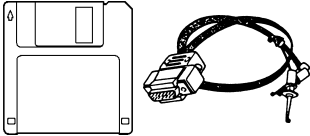
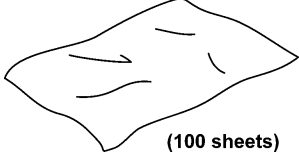
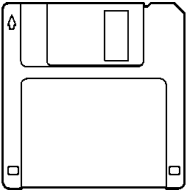
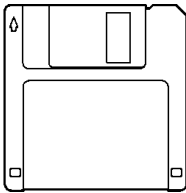
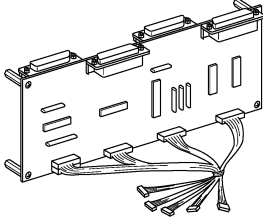


# 1. Servicing Fixtures & Tools

No.	PART No.	FIXTURE & TOOL NAME	REMARK
1	VFK1145A	Back Tension Meter	
2	VFK1149A	Post Driver	
3	VFK71A	Dial Torque Gauge (1.5cN·m)	150g
4	VFK1191A	Dial Torque Gauge (0.45cN·m)	45g
5	VFK1152	Dial Torque Gauge Adapter	
6	VFK0357	Eccentric Driver (1.5mm)	
7	VFK1154	Post Height Fixture	
8	VFK1153	Neutral Position Plate	
9	VFK1208	Neutral Position Tool (Black with Hole)	
10	VFK1156	PLAY Posotion Tool (Black without Hole)	
11	VFK1155	REV Position Tool (Silver)	
12	VFK1150	Nut Driver (5.5mm)	
13	VFK1151	Nut Driver (2.5mm)	
14	VFK1188A	Dial Tension Gauge (300mN)	30g
15	VFK0948A	Check Light	
16	VFK0749	Froiral Grease (White)	For Plastic Parts
17	MOR265	Morlytone Grease (Black)	For Metal Parts
18	VFK1146	Phillips Driver (00 - 75)	
19	VFK1147	Phillips Driver (00 - 100)	
20	VFK1148	Hex Driver (1.5mm)	
21	VFK1178	Hex Driver (0.89mm)	
22	VFK1179	Hex Driver (0.71mm)	
23	VFK1190	Hex Wrench	
24	VFK1209A	Torque Driver (4cN·m-30cN·m)	(0.4kgf·cm -3kgf·cm)
25	VFK1375	Post Axis Driver (1.5mm)	Substitute for VFK0912
26	VFK1300	A/D Board (DAQ-12 Quatech)	
27	VFM3680KM	DVCPRO Alignment Tape (No.1) (for PAL)	or VFM3680KL
28	VFM3681KM	DVCPRO Alignment Tape (No.2) (for PAL)	or VFM3681KL
29	VFM3682KM	DVCPRO Alignment Tape (No.3) (for PAL)	or VFM3582KL
30	VFM3580KM	DVCPRO Alignment Tape (No.1) (for NTSC)	or VFM3680KL
31	VFM3480KM	DVCPRO 50 Alignment Tape (for PAL)	
32	VFM3683KM	DVCPRO 25 Auto EQ Alignment Tape (for PAL)	
33	VFM3110EDS	DV Alignment Tape (Colour Bar) (for PAL)	
34	VFM3000EDS	DV Alignment Tape (LISTA)	
35	AJ-CL12MP	Cleaning Tape	Sales route
36	VFK1369	Tape Beg./End Detection Cassette	
37	VFK1481A	LISTA Software	
38	VFK1186	LISTA Cable	
39	VZZ0095	Cleaning Cloth	
40	VFK1248E	Flash Memory Version-up Software	
41	VFK1503	Servo Version-up Software	
42	VFK1590	CPLD WRITER	
43	VFK0906	Lubricating Oil	
44	————	EE Cleaner (OLYMPUS CHEMITECH)	



<b>1 VFK1145A</b> Back Tension Meter 	<b>2 VFK1149A</b> Post Driver 	<b>3 VFK71A</b> <b>4 VFK1191A</b> Dial Torque Gauge 	<b>5 VFK1152</b> Dial Torque Gauge Adapter 
<b>6 VFK0357</b> Eccentric Driver (1.5mm) 	<b>7 VFK1154</b> Post Height Fixture 	<b>8 VFK1153</b> Neutral Position PLate 	<b>9 VFK1208</b> Neutral Position Tool (Black with Hole) 
<b>10 VFK1156</b> PLAY Position Tool (Black without Hole) 	<b>11 VFK1155</b> REV Position Tool (Silver) 	<b>12 VFK1150</b> Nut Driver (5.5mm) 	<b>13 VFK1151</b> Nut Driver (2.5mm) 
<b>14 VFK1188A</b> Dial Tension Gauge (30mN) 	<b>15 VFK0948A</b> Check Light 	<b>16 VFK0749</b> Froiral Grease (White) (for Plastic Parts) 	<b>17 MOR265</b> Morlytone Grease (Black) (for Metal Parts) 
<b>18 VFK1146 (00X75)</b> <b>19 VFK1147 (0X100)</b> Phillips Driver 	<b>20 VFK1148 (1.5mm)</b> <b>21 VFK1178 (0.89mm)</b> <b>22 VFK1179 (0.71mm)</b> Hex Driver 	<b>23 VFK1190</b> Hex Wrench 	<b>24 VFK1209A</b> Torque Driver 



<b>25 VFK1375</b> Post Axis Driver 	<b>26 VFK1300</b> A/D Board (Quatech DAQ-12) 	<b>27 VFM3680KM or KL</b> <b>28 VFM3681KM or KL</b> <b>29 VFM3682KM or KL</b> DVCPRO Alignment Tape (PAL) 	<b>30 VFM3580KM or KL</b> DVCPRO Alignment Tape (NTSC) 
<b>31 VFM3480KM</b> DVCPRO 50 Alignment Tape (PAL) 	<b>32 VFM3683KM</b> DVCPRO 25 AUTO EQ Alignment Tape (PAL) 	<b>33 VFM3110EDS</b> DV Alignment Tape (Colour Bar : PAL) 	<b>34 VFM3000EDS</b> DV Alignment Tape (LISTA) 
<b>35 AJ-CL12MP</b> Cleaning Tape 	<b>36 VFK1369</b> Tape Beg./End Detection Cassette 	<b>37 VFK1481A</b> LISTA Software <b>38 VFK1186</b> LISTA Cable 	<b>39 VZZ0095</b> Cleaning Cloth  (100 sheets)
<b>40 VFK1248E</b> Flash Memory Version-up Software 	<b>41 VFK1503</b> Servo Version-up Software 	<b>42 VFK1590</b> CPLD WRITER 	<b>43 VFK0906</b> Lubricating Oil 
<b>44 EE Cleaner</b> 			



## 2. Alignment Tape

### 2-1. VFM3580KM / L (NTSC) (25M adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar SMPTE(75%)	Confirmation of the composite video level	1KHz -20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
7:00	Color bar (100%)	Confirmation of the composite video level				
14:00	H sweep	Frequency characteristic			6KHz 0VU	A/C head azimuth adjustment
18:00	Bow tie (500K)	Y/C timing			300, 500, 1K 2K, 4K, 6KHz	Frequency characteristic
22:00	Pulse & bar	Y/C timing				
26:00	Area marker	Video start timing			-----	-----

### 2-2. VFM3680KM / L (PAL) (25M adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar 100%	Confirmation of the composite video level	1KHz -18dBu	Audio level Confirmation	1KHz Reference level	Confirmation of the cue level
10:00	H Sweep	Frequency Response			6KHz Reference level	A/C head azimuth adjustment
14:00	Area Markers					
18:00	Bowtie (500K)	Y/C Timing			1KHz 300KHz~6KHz	Frequency Response
22:00	Pluse & Bar	Y/C Timing				
26:00 30:00	Multi Pulse	Y/C Timing				-----

### 2-3. VFM3681KM / L (PAL) (LISTA adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

### 2-4. VFM3682KM / L (PAL) (X-value adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar (75%) (with drop-out track)	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment



**2-5. VFM3010EDS (NTSC)/ VFM3110EDS (PAL) (DV adjustment tape)**

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar	EQ adjustment	1,102.5KHz		-----	-----

**2-6. VFM3000EDS (DV (LISTA) adjustment tape)**

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	LISTA signal	Adjustment of the linearity	-----	-----	-----	-----

**2-7. VFM3480KM (PAL) (50M adjustment tape)**

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar (with teletext) (100%)	Confirmation of video level and teletext level	997KHz -20dBu	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
4:00	Color bar (75%)	Confirmation of the video level				
7:00	Multiburst (Y/Pb/Pr)	Frequency characteristic				
10:00	Multiburst (Y)	Y-Frequency characteristic				
13:00	Bowtie	Y/C Timing				
16:00	Area Marker	Video start timing				

**2-8. VFM3683KM (PAL) (25 AUTO EQ adjustment tape)**



### 3. List of Recommended Measuring Instruments

MODEL NO. (Example)	NAME	REMARK
TSG1910 (NTSC)	NTSC analog composite signal generator (with CF OUT)	Tectronix
TSG1411 (PAL)	PAL analog composite signal generator (with CF OUT)	
1760 (op. SC) or 1780R	SCH meter (NTSC)	
	Waveform monitor (NTSC)	
	Vector scope (NTSC)	
1761 (op. SC) or 1781R	SCH meter (PAL)	
	Waveform monitor (PAL)	
	Vector scope (PAL)	
	Oscilloscope	
	Digital voltmeter (D.V.M.)	
	Frequency counter	
	Audio noise meter	
	Audio analyzer	



## 4. Maintenance

### 4-1. Maintenance Schedule

VTR uses many wearable components. Deterioration and/or wear of them may cause some malfunction. Dust and dirt also may cause it. Therefore the following preventive maintenance is recommended to be done periodically in order to maintain VTR in the good condition so that VTR can work stably.

	Part name	Part No.	Hours of use (unit: hours)					
			2,000H	4,000H	6,000H	8,000H	10,000H	12,000H
-	Cleaning of the tape transport	-----	<b>C: Every 500 hours</b>					
-	Mechanical Chassis Unit	VXY1538Z1						<b>R</b>
1	Cylinder Unit	VEG1501	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>IM</b>
2	Pinch Arm Unit	VXL2835	<b>R, G</b>	<b>R, G</b>	<b>R, G</b>	<b>R, G</b>	<b>R, G</b>	<b>IM</b>
3	Cleaning Arm Unit	VXL3027	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>IM</b>
4	S Reel Motor Unit	VEM0686		<b>R</b>		<b>R</b>		<b>IM</b>
5	T Reel Motor Unit	VEM0687		<b>R</b>		<b>R</b>		<b>IM</b>
6	Thrust Screw	VXQ0556		<b>R, L</b>		<b>R, L</b>		<b>IM</b>
7	S1 Loading Arm Unit	VXL2812			<b>R</b>			<b>IM</b>
8	T1 Boat Unit	VXA6379			<b>R</b>			<b>IM</b>
9	S5 Post Base Unit	VXA6052			<b>R</b>			<b>IM</b>
10	Tension Arm Unit	VXL2832			<b>R</b>			<b>IM</b>
11	A/C Head Unit	VED0419						<b>IM</b>
12	Loading Motor Unit	VEM0645						<b>IM</b>
13	Reel Drive Motor Unit	VEM0585						<b>IM</b>
14	Mode SW Unit	VES0918						<b>IM</b>
15	Pinch Solenoid	VSJ0227						<b>IM</b>
16	S Brake Solenoid	VSJ0216						<b>IM</b>
17	T Brake Solenoid	VSJ0216						<b>IM</b>
18	Distinction SW Unit	VXA6199						<b>IM</b>
19	Cleaner Solenoid	VSJ0226						<b>IM</b>
20	Main Cam Gear	VDG1168						<b>IM</b>
21	M Stopper Solenoid	VSJ0216						<b>IM</b>
-	Front Loading Unit	VXA6593						<b>R</b>
-	Slot In Motor	VXA5597						<b>F</b>
-	Fan Motor	VRF0208	Replace after every 10,000 h of operation time					
-	LCD Unit	TR-LM7WS1VS	Replace after every 10,000 h of operation time					

**Replacement of the mechanical chassis unit is recommended for the 12,000 h maintenance.**

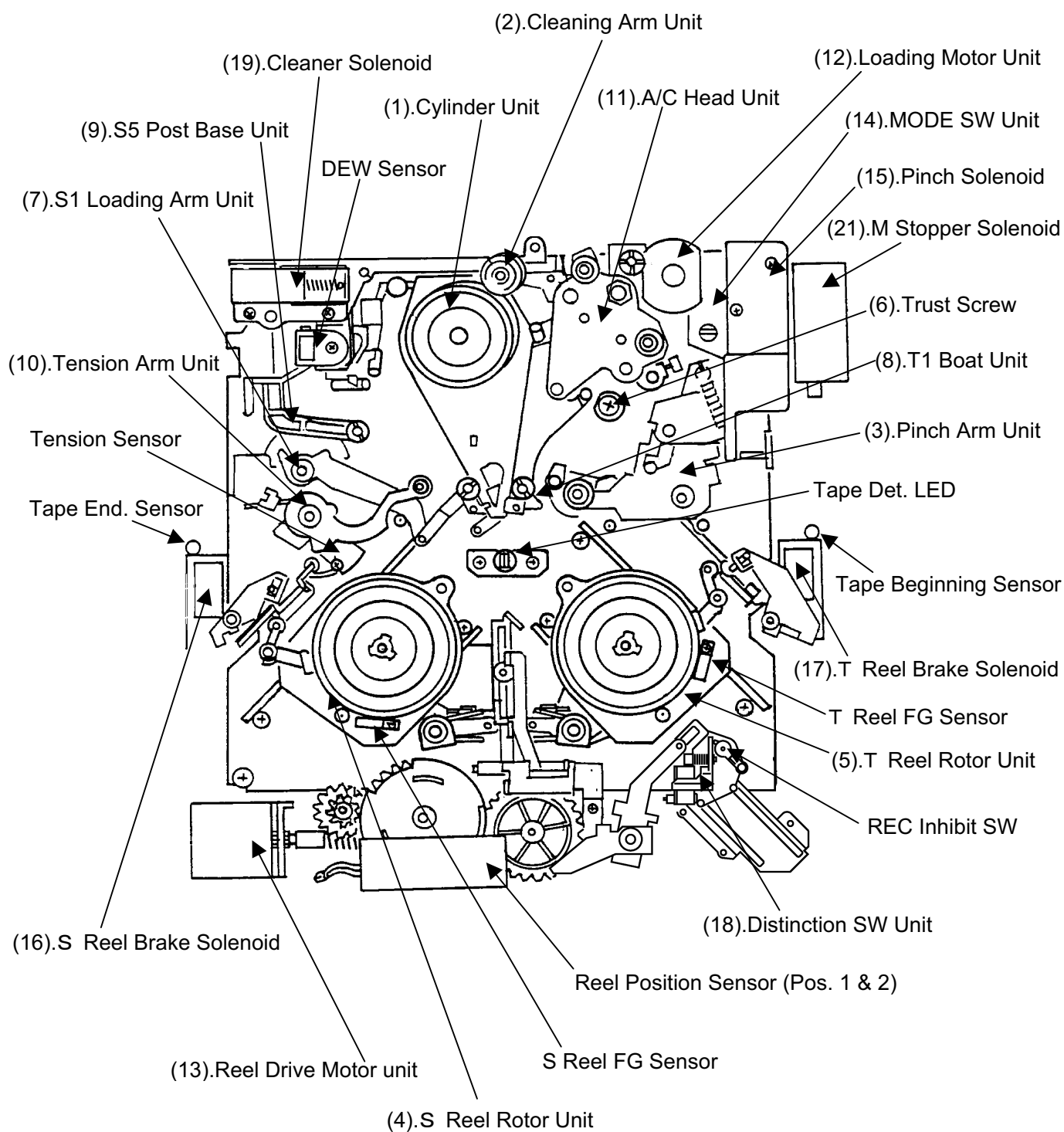
- C** : Perform cleaning.  
**R** : Objective parts to be replaced.  
**G** : At the time of replacement, wipe off the old grease and apply new grease. (Morlytone grease)  
**L** : Lubrication is necessary.  
**IM** : Included in the mechanical chassis unit.  
 When the mechanical chassis unit is not replaced, replacement as a single part is required.  
**F** : Included in the front-loading unit.

#### <Note:>

The Hours of use indicates the cylinder rotation time (DRUM RUN).  
 The maintenance execution time shown in the chart is recommendation for standard maintenance execution. This is not the life of the various parts. The life is influenced by temperature, humidity, dust, etc.  
 Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.



## 4-2. Layout of the Maintenance Parts





## 4-3. Mechanical Adjustment

Please perform adjustment and replacement following this section and separated service manual "DVC PRO MECHANISM" (order No.VSD9912M914) together.

### 4-3-1. Table of TEST POINT

Name		AJ-LT95	
		VTR 1	VTR 2
<b>[ Tension Arm Adjustment ]</b>			
TENSION		ENCORDER VR1board: TP8	ENCORDER VR2 board: TP8
TENSION OFFSET		"A05 : TENSION OFST" (Service menu)	"A05 : TENSION OFST" (Service menu)
TENSION GAIN		ENCORDER VR1 board: VR7	ENCORDER VR2 board: VR7
<b>[ Photo Sensor Voltage Adjustment ]</b>			
S-side & T-side SENSOR VOLTAGE		"I02 : S PHOTO/T PHOTO" (Service menu)	"I02 : S PHOTO/T PHOTO" (Service menu)
Adjustment Point of S-side		MAIN CONTROL board: VR602(VTR1 side)	MAIN CONTROL board: VR602(VTR2 side)
Adjustment Point of T-side		MAIN CONTROL board: VR601(VTR1 side)	MAIN CONTROL board: VR601(VTR2 side)
<b>[ Tape Pass, A/C Head Adjustment ]</b>			
R/P-ENV L		RF AMP 1 board: TP401 (selected by Service menu)	RF AMP 2 board: TP601
PB/ENV L			RF AMP 2 board: TP701
R/P-ENV R		RF AMP 1 board: TP501 (selected by Service menu)	RF AMP 2 board: TP401
PB/ENV R			RF AMP 2 board: TP501
R/P-HSW L		ENCORDER VR1 board: TP7 (selected by Service menu)	ENCORDER VR2 board: TP7
PB-HSW L			RF AMP 2 board: TP901
LIVE-CTL		ENCORDER VR1 board: TP2	ENCORDER VR2 board: TP2
CUE		AUDIO VIDEO : TP40501(FRONT side)	AUDIO VIDEO : TP45501(REAR side)
<b>[ LISTA Adjustment ]</b>			
ATF ERR		DIGITAL1 board: TP3512	DIGITAL2 board: TP54321
TRG	R/P HSW L	ENCORDER VR1 board: TP7 (selected by Service menu)	ENCORDER VR2 board: TP7
	PB HSW L		RF AMP 2 board: TP901
ATF GAIN		Select the EVR on the SERVICE MENU (Refer to following table <LISTA Adjustment Mode>)	

#### <A/C Head Adjustment Mode>

Adjustment Name	Format select	Adjustment mode (Selected on SERVICE MENU)
Azimuth, X value adj.	25M	Select the item "RP LIN 25M"
	50M	Select the item "RP LIN 50M"

#### <LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode		
	Format Select (LISTA soft)	Selected Item on Service Menu	TRG Connection
Sens. Adjustment (R/P Head)	50M mode	"A10 : RP GAIN 50M"	R/P-HSW L
Linearity Adjustment		"A11 : RP LIN 50M"	R/P-HSW L
Sens. Adjustment (PB Head)		"A12 : PB GAIN 50M"	PB-HSW L
Sens. Adjustment (R/P Head) (25M compatibility)	25M mode	"A14 : RP GAIN 25M"	R/P-HSW L
Linearity Adjustment (25M compatibility)		"A15 : RP LIN25M"	R/P-HSW L
Sens. Adjustment (PB Head) (25M compatibility)		"A16 : PB GAIN 25M"	PB-HSW L



### 4-3-2. Classified list

< Mechanical Adjustment Procedure (page 2-11 to 2-52) of DVCPRO MECHANISM Service manual >

ITEM	PAGE Number	The number or character on classified list apply to AJ-LT95
3-9. Photo Sensor Voltage Adjustment	2-16	C (After select the item on service menu, adjust VR on the board.)
3-11. Envelope Waveform Adjustment	2-18	E
3-15. A/C Head Height Adjustment	2-22	E
3-17. A/C Head Height Confirmation	2-24	E
3-18. A/C Head Azimuth and X-value Adjustment (50M)	2-26	A
3-19. REV Tape Pass Confirmation and Adjustment	2-29	E
3-20. REV (-1) Mode Setting procedure	2-30	②
3-21. CTL Self recording Level Confirmation	2-30	E
3-23. Confirmation of Envelope REV,REW and FF mode	2-31	B
3-29. LISTA Adjustment Procedure	2-35	Procedure (4)
3-30. LISTA Connection and Boot Up	2-39	A
3-32. LISTA Sensitivity Adjustment and Sensitivity Detection	2-43	G
3-34. Self-REC/PLAY Envelope Waveform Confirmation	2-51	B

In addition to items indicated above table, select "DVCPRO 50" on «FORMAT SELECT» screen and select "AJ-D950" on «VIDEO SELECT» screen for menu selection after boot up of LISTA Software that is described on page 2-40.

### 4-3-3. Connector Number and Name of P.C.Board

< Major Mechanical Parts Replacement and Adjustment Procedure (Page 3-1 to 3-25) of DVCPRO MECHANISM Service manual >

ITEM	Page Number	Connector Number (Common for VTR1 & 2)	Name of P.C.Board (Common for VTR1 & 2)
1-1. Cylinder Unit Replacement	3-1	(A): P23133	(B): Servo Drive
1-5. Supply & Take-up Reel Rotor Unit Replacement	3-4	(A): P23134, (B): P23135	(B): Servo Drive
1-8. Supply Brake Solenoid Replacement and Adj.	3-7	(A): P23115	(B): Servo Drive
1-9. Take-up Brake Solenoid Replacement and Adj.	3-8	(A): P23115	(B): Servo Drive
1-10. Pinch Solenoid Replacement	3-9	(A): P23120	(B): Servo Drive
1-13. Loading Motor Replacement	3-10	(A): P23121	(B): Servo Drive
1-14. Mode SW Unit Replacement	3-11	(A): P23122	(B): Servo Drive
1-23. A/C Head Replacement & Adjustment	3-18	(A): P52006(VTR1)	(B): RF AMP 2
		(A): P52004(VTR2)	
		(C): P23130	(D): Servo Drive
1-24. Cleaner Solenoid Replacement & Adj.	3-20	(A): P23111	(B): Servo Drive
1-25. Distinction SW Unit Replacement	3-21	(A): P23117	(B): Servo Drive
1-27. Reel Drive Motor Unit Replacement	3-22	(A): P23116	(B): Servo Drive
1-30. M-Stopper Solenoid Replacement & Adj.	3-24	(A): P23124	(B): Servo Drive

In addition to items indicated above table, TYPE A on CHART C is for AJ-LT95 to implement "1-6. Main Brake Torque confirmation" on page 3-6.

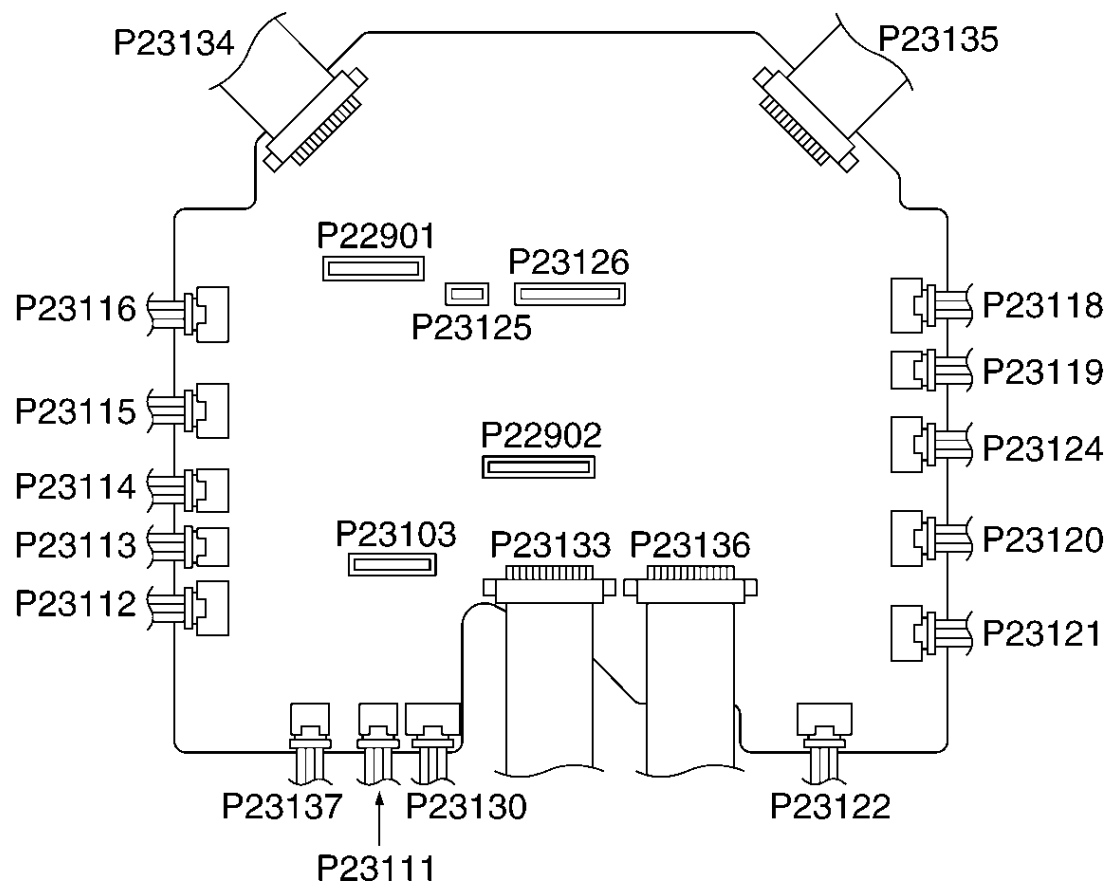
### 4-3-4. No Tape Loading Procedure

[ Procedure ]

Selected Menu (on Service Menu)	Selected Item	Loading Procedure	Unloading Procedure
SERVO ADJUST	T TORQUE	Press VTR1/2 button	Press C button



#### 4-3-5. Connector Location of Servo P.C.Board





## 5. Manual Tape Eject Method

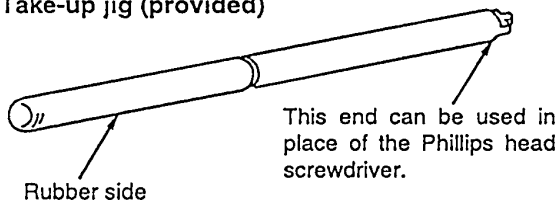
When a tape can not be ejected by some trouble, the tape can be removed manually as follows.

1. Turns power off and remove the Top Case Unit.
2. Rotate the red plastic screw by a Phillips - head screwdriver counterclockwise pushing the screw. It needs to rotate until post start to move.(see ②)
3. Since tape slack will occur when the post is unloaded, rotate the supply reel to wind up the tape.

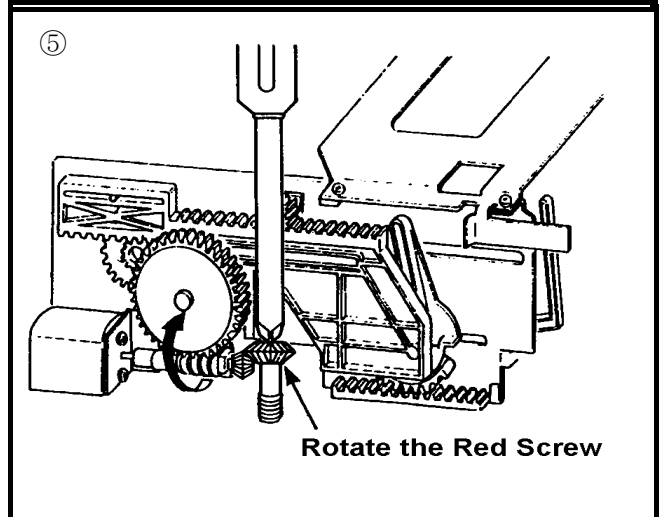
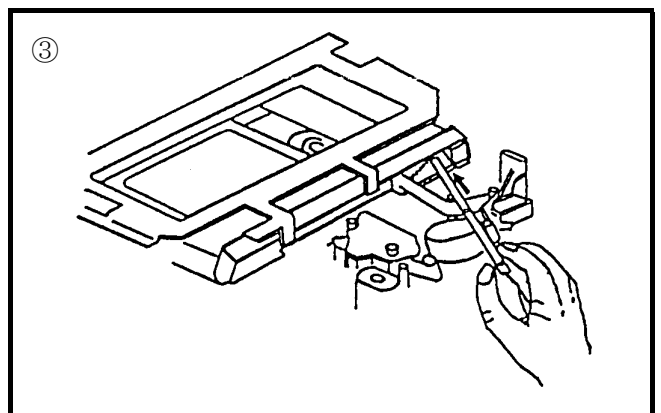
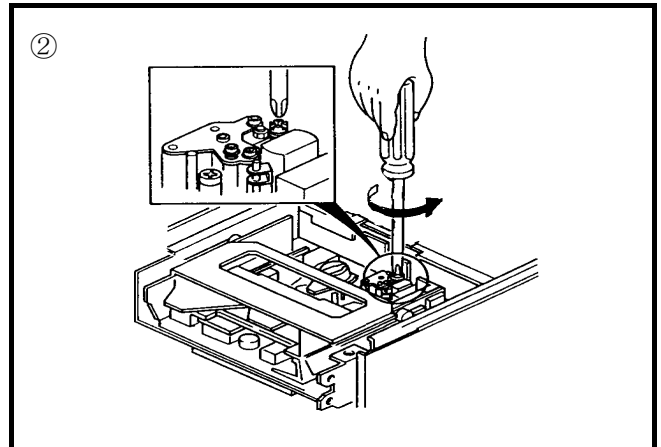
How to wind up the tape (see ③)

- a. Insert the rubber side of the take-up jig to the cassette rid opening position from mechanism side.
- b. Turn the flange of the supply reel in the direction of winding up to eliminate the tape slack. (Take care not to damage the tape in the process.)

Take-up jig (provided)



4. Repeat item 2 and 3 until the tape is wound up completely inside of the cassette.
5. When the tape is completely gotten inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a Philips-head screwdriver pushing the screw. Remove the cassette with care not to pinch the tape by cassette rid when it close.





## 6. Cleaning Procedures

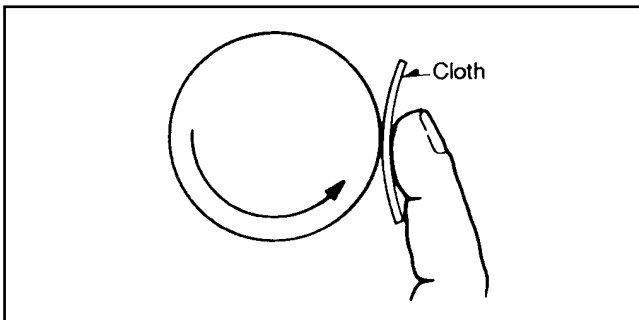
**Note:** Turns power off during cleaning.

Make sure the power is OFF before cleaning.

Use ethanol(more than 99% purity) as cleaning liquid.

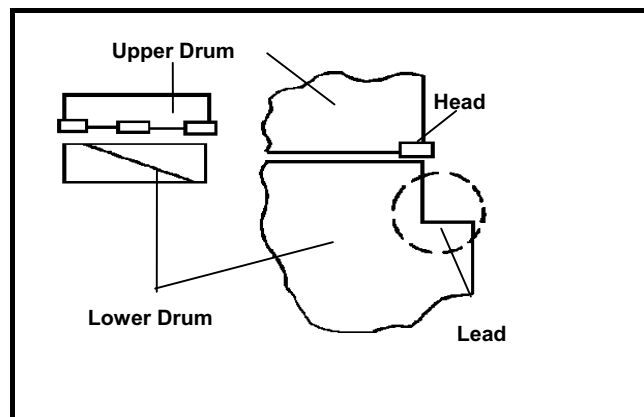
### 6-1 Cleaning of Head Chips: (Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



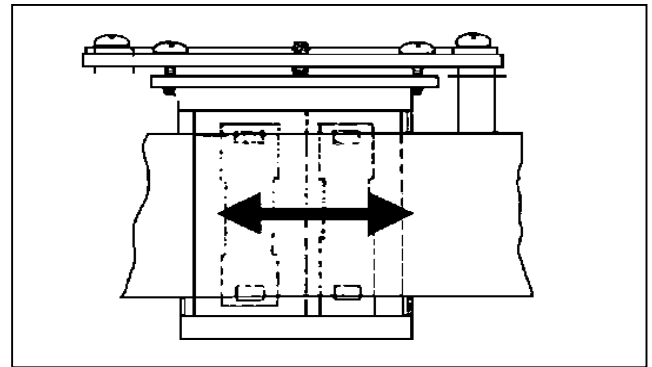
### 6-2. Cleaning of Cylinder Lead: (Weekly)

Be careful not to touch a head chip. Clean the Cylinder lead with a tooth pick.



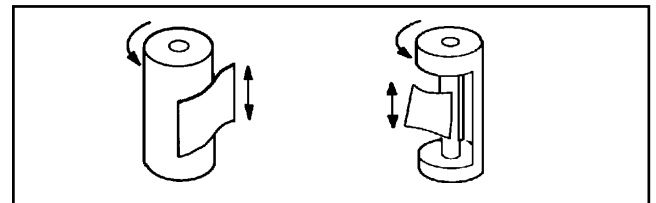
### 6-3. Cleaning of A/C Head: (Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



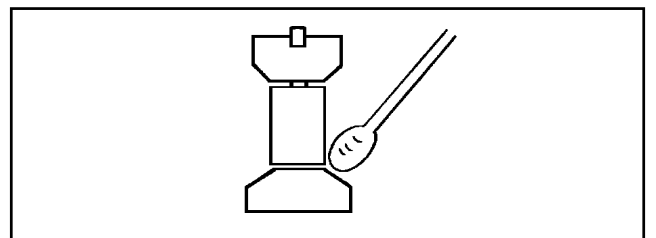
### 6-4. Cleaning of Pinch Roller and Capstan: (Weekly)

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



### 6-5. Cleaning of Post :(Weekly)

Wind a cloth on a pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry cloth again.



#### **Note:**

Use the clean cloth for cleaning purpose. Do not use any dirty cloth.

The Cleaning Cloth can be ordered as service part. The part number indicated as below.

CLEANING CLOTH : VZZ0095



## 7. Software Version and Hour Meter Confirmation Procedure

- Display the Software version
- Display the Hour Meter

The units system software version and hour meter can be viewed on the DIAG menu.

### 7-1. To get into the DIAG mode (To display Hour Meter)

- (1). Press the DIAG (SHIFT + 9) buttons. (This cannot be done by remote control)

The hour meter display appears on the VTR 1 and VTR 2 monitor screens.

**Note :** The Operation hour is displayed on only VTR2 monitor screen.

- (2). Turn the Search Dial to move item.

Turn it clockwise (FWD) to move down and counterclockwise (REV) to move up.

**Note :** Remember that the selection cannot be done in the shuttle mode. Set the unit to the JOG mode.

DIAG-MENU HOUR METER			
<VTR 1>			
* H01	DRUM RUN	10000H	
H02	TAPE RUN	10000H	
H03	THREADING	10000T	
H11	DRUM RUN r	10000H	
H12	TAPE RUN r	10000H	
H13	THREADING r	10000T	

Hour Meter Display (VTR1 side)

DIAG-MENU HOUR METER			
<VTR 2>			
* H00	OPERATION	10000H	
H01	DRUM RUN	10000H	
H02	TAPE RUN	10000H	
H03	THREADING	10000T	
H11	DRUM RUN r	10000H	
H12	TAPE RUN r	10000H	
H13	THREADING r	10000T	

Hour Meter Display (VTR2 side)

Details of the hour meter display are given below.

Item		Data	Description
No.	Display	Display	
H00	OPERATION	00000H     99999H	The period of time how long power has been on by the unit of hour.
H01	DRUM RUN	00000H     99999H	The period of time how long drum has been rotating by the unit of hour.
H02	TAPE RUN	00000H     99999H	The period of time how long the tape transport has worked in the fast forward, rewind, play, search (JOG, VAR, SHTL), recording or editing mode (but not in the STILL mode with JOG, VAR and SHTL) by the unit of hour.
H03	THREADING	00000T     99999T	The number how many times the tape threading and unthreading has been done.



## 7-2. To display the software version

(1). Press the SHIFT + FF buttons so that the display changes from hour meter to software version.

**NOTE:** Display software is displayed on only VTR1 side. KEYBOARD software version is displayed on only VTR2 side. And also DV/R software version displayed on only VTR2 side.

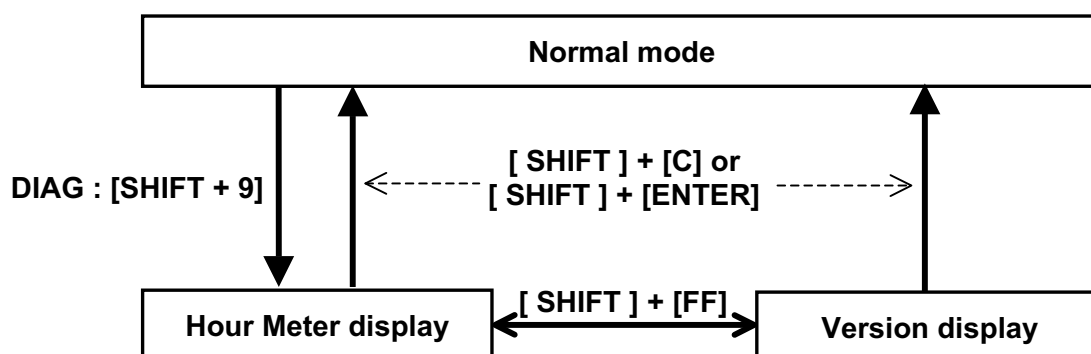
DIAG-MENU VERSION	
<VTR 1>	
DISPLAY	Ver<1.00-00-0.00>
AV-SYSCON	Ver<1.00-00-0.00>
SERVO	Ver<1.00-00-0.00>
DV/P	Ver<1.00-00-0.00>
END	

Version Display (VTR1 side)

DIAG-MENU VERSION	
<VTR 2>	
KEYBOAED	Ver<1.00-00-0.00>
AV-SYSCON	Ver<1.00-00-0.00>
SERVO	Ver<1.00-00-0.00>
DV/P	Ver<1.00-00-0.00>
DV/R	Ver<1.00-00-0.00>
END	

Version Display (VTR2 side)

## 7-3. DIAG menu display mode



- Press the DIAG [ SHIFT ] + [ 9 ] buttons so that the display change to DIAG mode from normal mode. Then Hour Meter display appear on screen first.
- Display changes hour meter or version by press the [ SHIFT ] + [ FF ] buttons alternately.
- Press the [ SHIFT ] + [ C ] or [ SHIFT ] + [ ENTER ] buttons, then it move back to normal mode from the DIAG mode.



## 8. Hour Meter Reset Procedure

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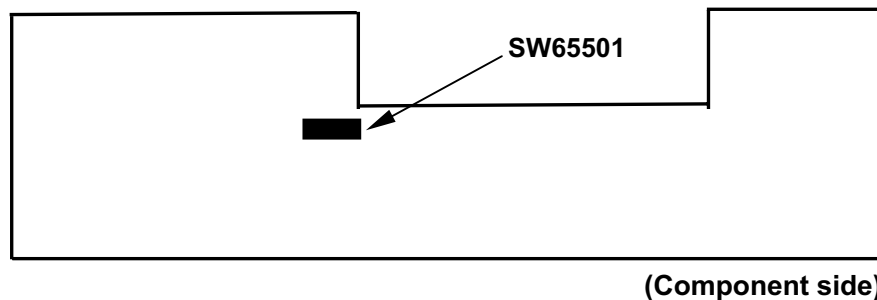
1. Eject tape.
2. Set the bit5 to OFF and bit6 to ON of SW65501 on MAIN CONTROL P.C. Board.
3. Press the DIAG (SHIFT + 9) buttons. The hour meter display appears on the VTR 1 and VTR 2 monitor screens.
4. Set the cursor to mark "r" indicated item (item H11 to H13).  
**NOTE:** The Hour Meter indication can be reset individually, DRUM RUN r, TAPE RUN r, and THREADING r.
5. Press the reset button (VTR 1 and VTR 2 side follow your request), then following message appears.

**< In case of select the DRUM RUN r >**

HOUR NETER INIT SET  
<VTR—1>  
DRUM RUN r OK?  
YES <PLAY> / NO <STILL>

6. To execute the reset function, press "PLAY" button.
7. To cancel the reset function, press "STILL" button.

### MAIN CONTROL P.C. Board





## 9. Software Version Upgrade Method

### 9-1. Service Operation of Software Version Upgrade.

In AJ-LT95, some software which DIAG menu can display version and PLDs are installed. Please refer to type of IC as indicated in below.

	Name	Type	Board	Ref No.	Location
—	DISPLAY	Microprocessor	Display Control	IC68002	F1
	KEYBOARD	FLASH Memory	Main Control	IC65001	C1
VTR1	AV-SYSCON	FLASH Memory	Main Control	IC60101	B3
	SERVO	FLASH Memory	Main Control	IC21102	D3
	DV/P	Microprocessor	DIGITAL 1	VEP88234U	F5
	PLD	EPROM	Main Control	IC60201	B1
	PLD	EPROM	Main Control	IC21201	C2
	PLD	EPROM	Main Control	IC21901	F4
	PLD	One time ROM	DIGITAL 1	IC30002	B4
	PLD	One time ROM	DIGITAL 1	IC34102	D3
	PLD	One time ROM	DIGITAL 1	IC30502	B1
VTR2	AV-SYSCON	FLASH Memory	Main Control	IC62101	L3
	SERVO	FLASH Memory	Main Control	IC21502	H3
	DV/P	Microprocessor	DIGITAL 2	VEP88234U	I1
	DV/R	Microprocessor	DIGITAL 2	VEP88234U	I4
	PLD	EPROM	Main Control	IC62201	L1
	PLD	EPROM	Main Control	IC21601	J2
	PLD	One time ROM	DIGITAL 2	IC30252	E5
	PLD	One time ROM	DIGITAL 2	IC30502	B1

The Microprocessor on Display Control Board, which is type of ISP, is soldered on the board. Please replace it to new IC for version upgrade.

The Flash Memory (Built-in Microcomputer with Flash Memory) on Main Control board can be upgraded by version up software. Upgrade procedure is mentioned in this section.

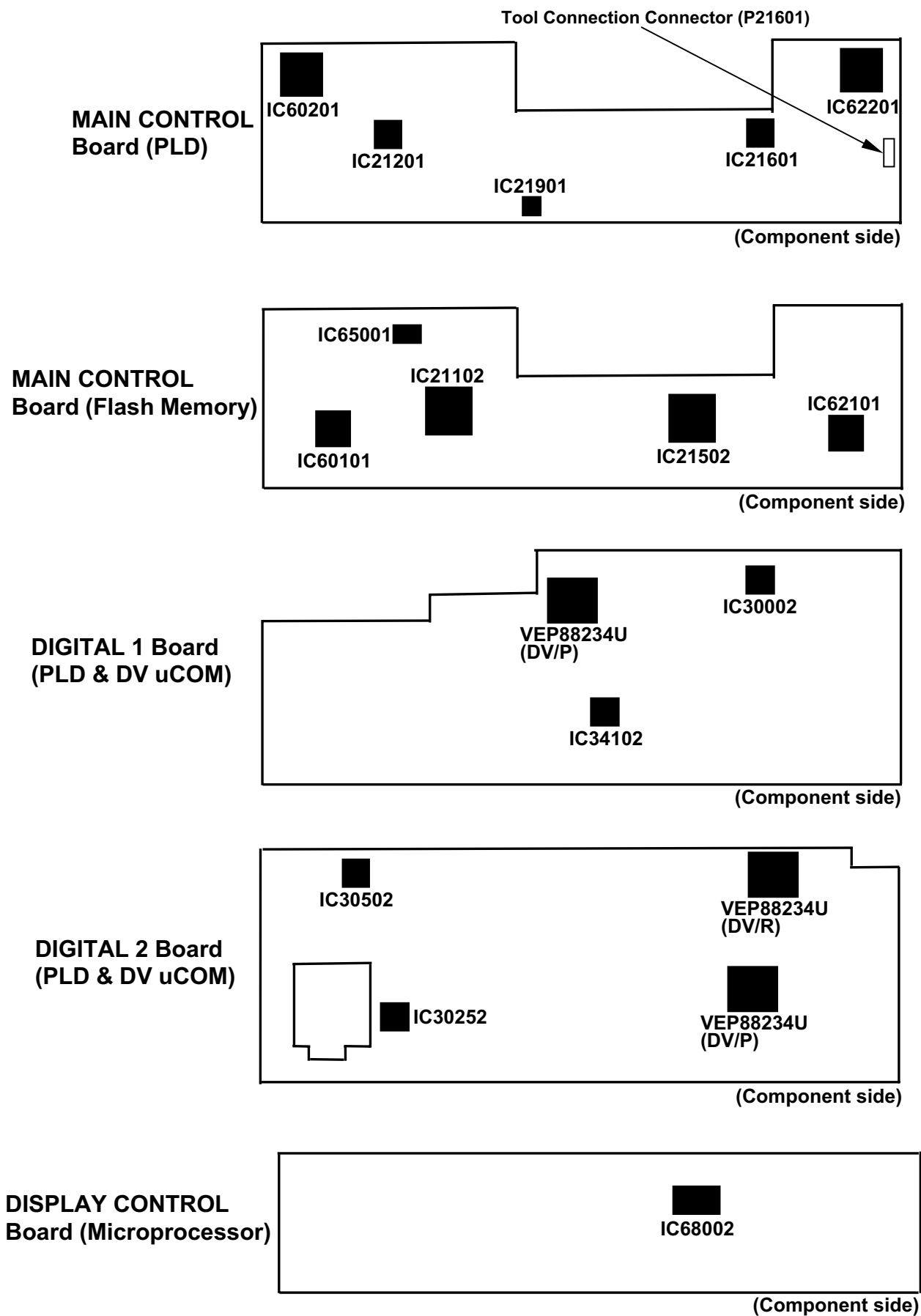
The Microprocessor on DIGITAL 1 and 2 board are soldered on small board (DV uCOM board). The DV uCOM board is inserted to IC socket on DIGITAL board. Please replace it to new DV uCOM board for version upgrade.

The PLD on DIGITAL 1 and 2 board, which is type of One time ROM, is inserted to IC socket. Please replace it to new IC for version upgrade.

The PLD on MAIN CONTROL board can be upgraded with the PLD writer. Connect the PLD writer to respective connector on MAIN CONTROL board and run the PLD writing software. Following chart shows reference number of connectors and PLD manufacturer.

board	Ref No.	Connector	Number of pins	PLD Maker
MAIN CONTROL	IC62201	P21601	8P	XILINX
MAIN CONTROL	IC60201	P21601	8P	XILINX
MAIN CONTROL	IC21201	P21601	8P	XILINX
MAIN CONTROL	IC21601	P21601	8P	XILINX
MAIN CONTROL	IC21901	P21601	8P	XILINX







## 9-2. Version Upgrade for the Built-in Microcomputer with Flash Memory

The microcomputers (A/V, KEYBOARD, SERVO) on the **MAIN CONTROL** circuit boards have built-in flash memory. For the KEYBOARD and AV software version up, use the “**Flash memory version up software (VFK1248E)**”. For the Servo software version up, use the “**Servo version up software (VFK1503)**”

### 9-2-1. Items required for flash memory writing

Personal computer compatible with Windows 95/98

RS-232C cable (9-pin cross-cable)

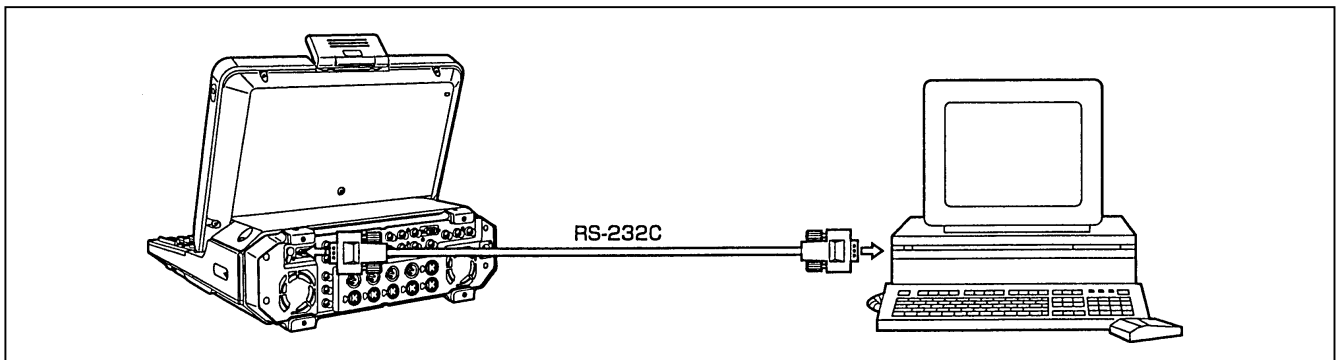
Flash memory version up software ..... **VFK1248E**  
(For KEYBOARD and AV version upgrade)

**NOTE:** The old version software (VFK1248A) can not be used.

Servo version up software ..... **VFK1503**  
(For SERVO version upgrade)

### 9-2-2. Connection of the RS232C Cable

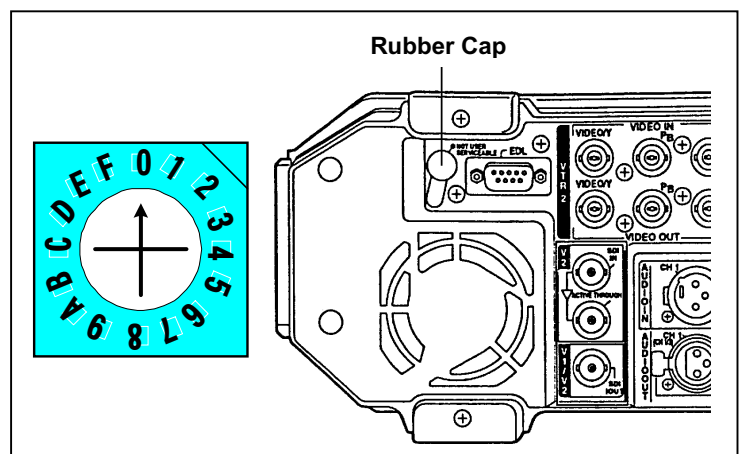
Connect the RS-232C Cross Cable between COM port of Personal Computer and EDL terminal on Rear Panel of AJ-LT95.



### 9-2-3. Set Up Procedure of ROTARY SW

For the FLASH MEMORY version up with Version Up Software, setting of ROTARY SW is required. The ROTARY SW is located beside EDL terminal on the REAR PANEL, which is hidden under the Rubber Cap as indicated following figure. Remove the Rubber Cap and set the ROTARY SW by following explanation

- When select the 0: Normal Operation
- When select the 1: Upgrade the KEY BOARD Microprocessor
- When select the 2: Upgrade the SERVO Microprocessor of VTR1
- When select the 3: Upgrade the SERVO Microprocessor of VTR2
- When select the 4: Upgrade the AV/SYS Microprocessor of VTR1
- When select the 5: Upgrade the AV/SYS Microprocessor of VTR2



**NOTE:** Please set the ROTARY SW before turn on power of AJ-LT95.



## 9-3. Version Upgrade Procedure of KEYBOARD and AV Microprocessor

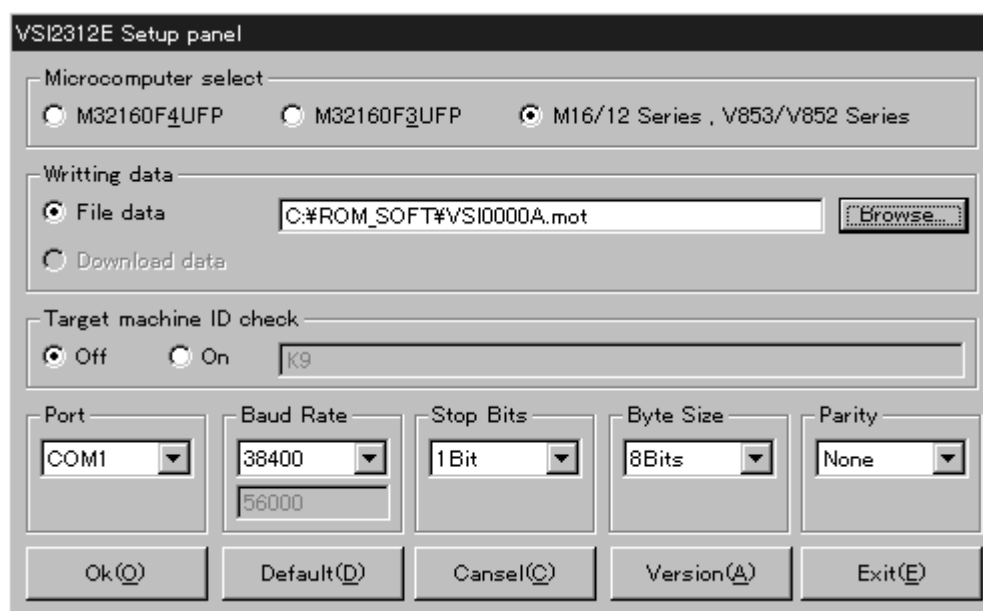
### 9-3-1. Installation of the flash memory version up software

Copy the following file to any directory on a personal computer compatible with Windows 95/98.  
(After execution of the software, an ".INI" file will be created in the same directory as the program file, but this may be left or may be deleted as desired.)

Program File                      **VSI2312E.EXE**

### 9-3-2. Version Upgrade Procedure of KEYBOARD Microprocessor

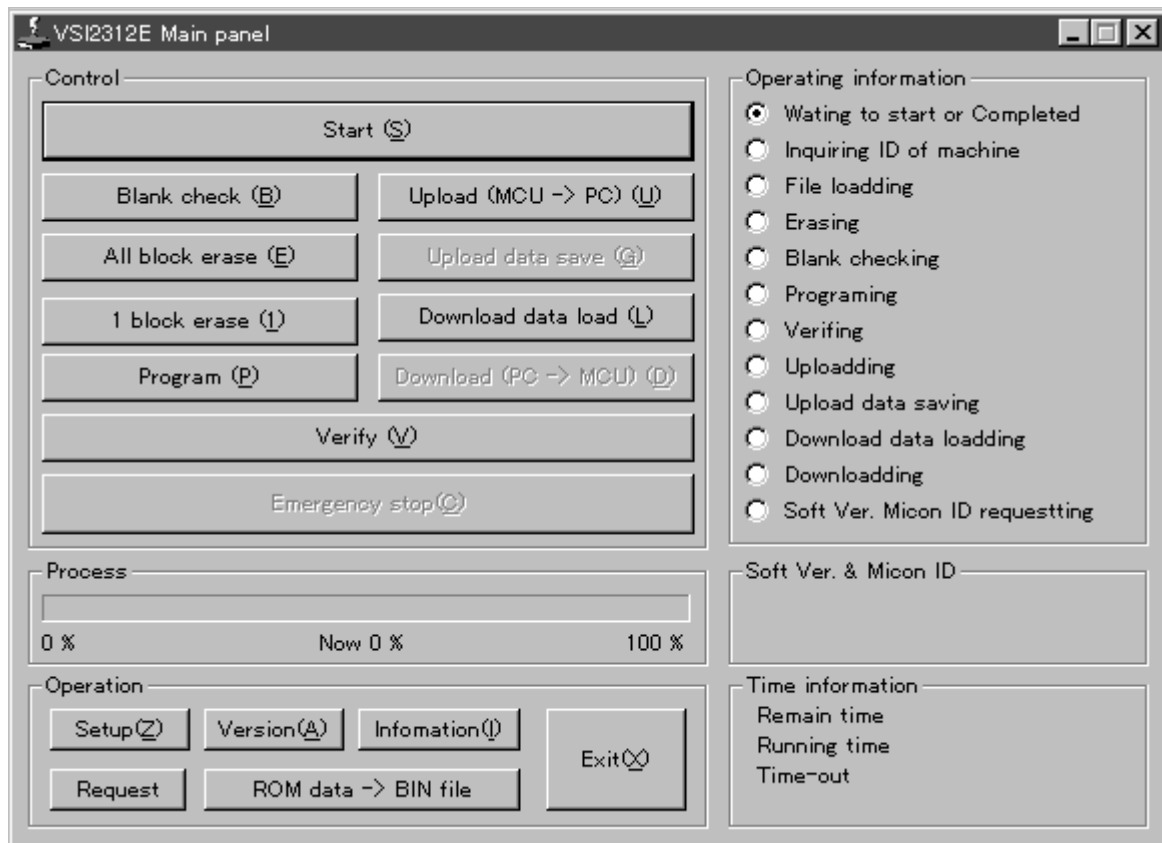
1. Boot up the personal computer in the condition that "9-2-2. Connection of the RS232C cable" and "9-2-3. Set Up Procedure of ROTARY SW" is completed.
2. Turn on the power of AJ-LT95. After turn on the power, the character "rst" is displayed on Event Number Display Lamp and AJ-LT95 goes to Auto Off mode, then an Alarm beeps 4 times.
3. Boot up the flash memory version up software.  
(Double-click the program file "VSI2312E.EXE", which had been copied to any directory, or create a shortcut to "VSI2312E.EXE" and double-click the shortcut.)
4. When this program is started, the "Setup Panel" will open as shown below.



5. Perform the following settings on the "Setup Panel".
  - Microcomputer select..... **V853/V852 Sereis**
  - Writing data ..... **File data**  
Enter the new software (XXXX.mot) for the version upgrade with the full path. You can also use the "Browse..." button on the "Setup Panel" to select the file name and the location of the new software.
  - Port ..... Set the port which the RS-232C cable of the personal computer is connected.
  - Baud Rate..... **38400**
  - Stop Bits ..... **1Bit**
  - Byte Size..... **8Bits**
  - Parity ..... **None**

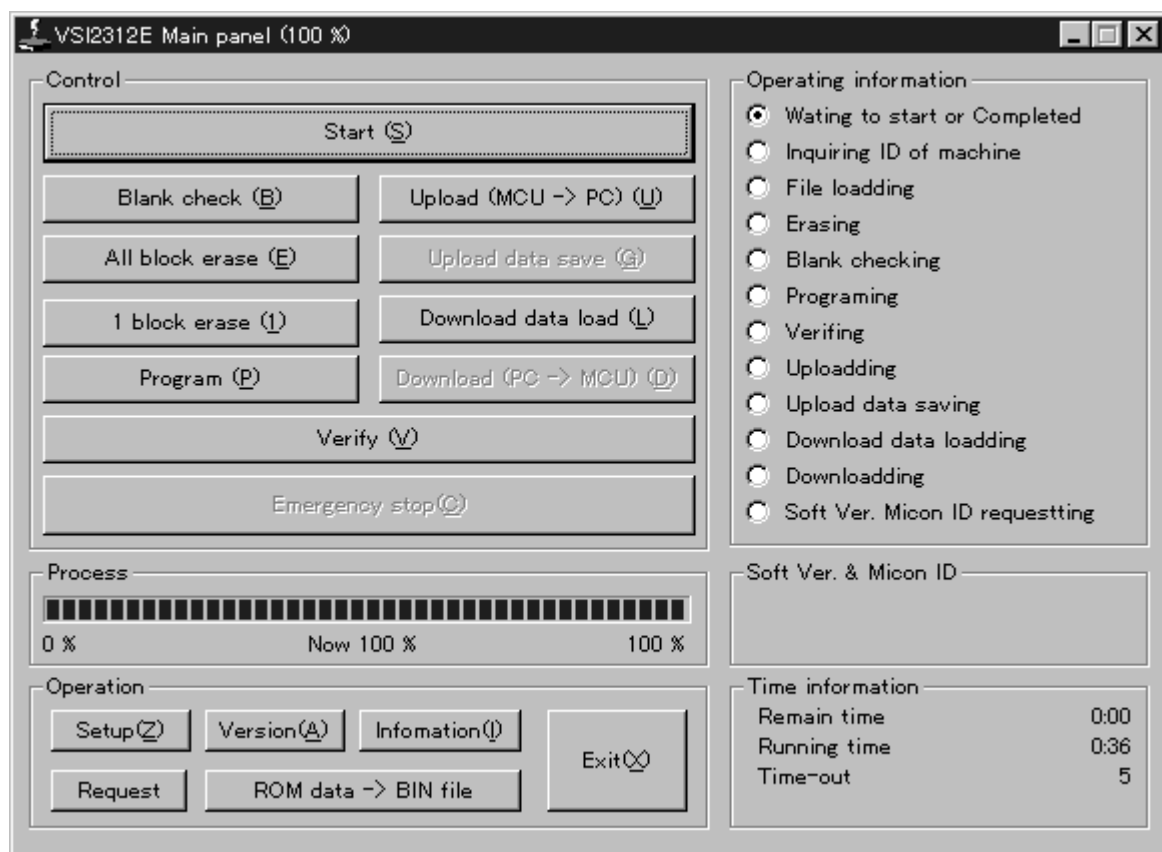


6. When the settings on the “**Setup Panel**” is completed, click “**Ok(O)**”. The “**Main Panel**” will be opened as shown below.



7. Click “**Start (S)**” on the “**Main Panel**”. (If you want to quit here, click “**Exit**”. If you want to return again to the “**Setup Panel**”, click “**Setup(Z)**”.)
8. After erasing of the flash memory, the new software will be written to the flash memory. During the processing, the progress status can be confirmed by means of the “**Process**” indicator. If the indicator does not go advance for some reason, click “**Emergency stop(C)**” to stop the work, connect again, and confirm the settings.
9. When erasing and writing of the flash memory is completed, the “**Process**” indicator reaches 100%, and a black dot appears for “**Waiting to start or Complete**” of “**Operating information**”. (See Next page)





10. When the above status is gotten, click "**Exit(X)**" to end the program.
11. When the version upgrade is completed, turn off the power of AJ-LT95 and set the Rotary SW to "0" position (normal mode)
12. Turn on the power of AJ-LT95 and open the DIAG menu to confirm that the version is upgraded.

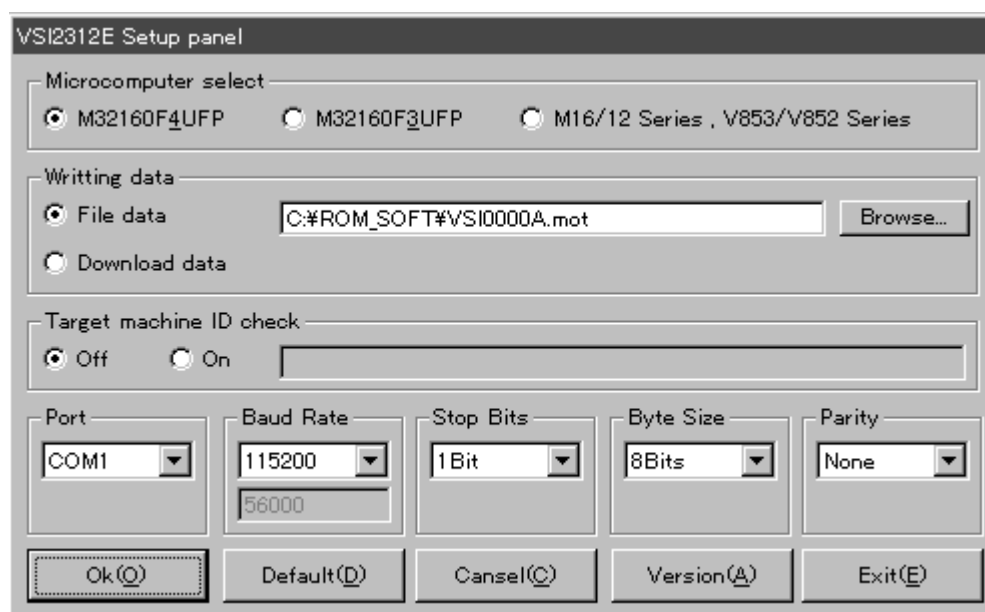
#### < Software Version confirmation procedure >

- (1). Press the DIAG (SHIFT + 9) buttons. (This cannot be done by remote control)  
The hour meter display appears on the VTR 1 and VTR 2 monitor screens.
- (2). Press the SHIFT + FF button so that the display changes from hour meter to software version.



### 9-3-3. Version Upgrade Procedure of AV Microprocessor

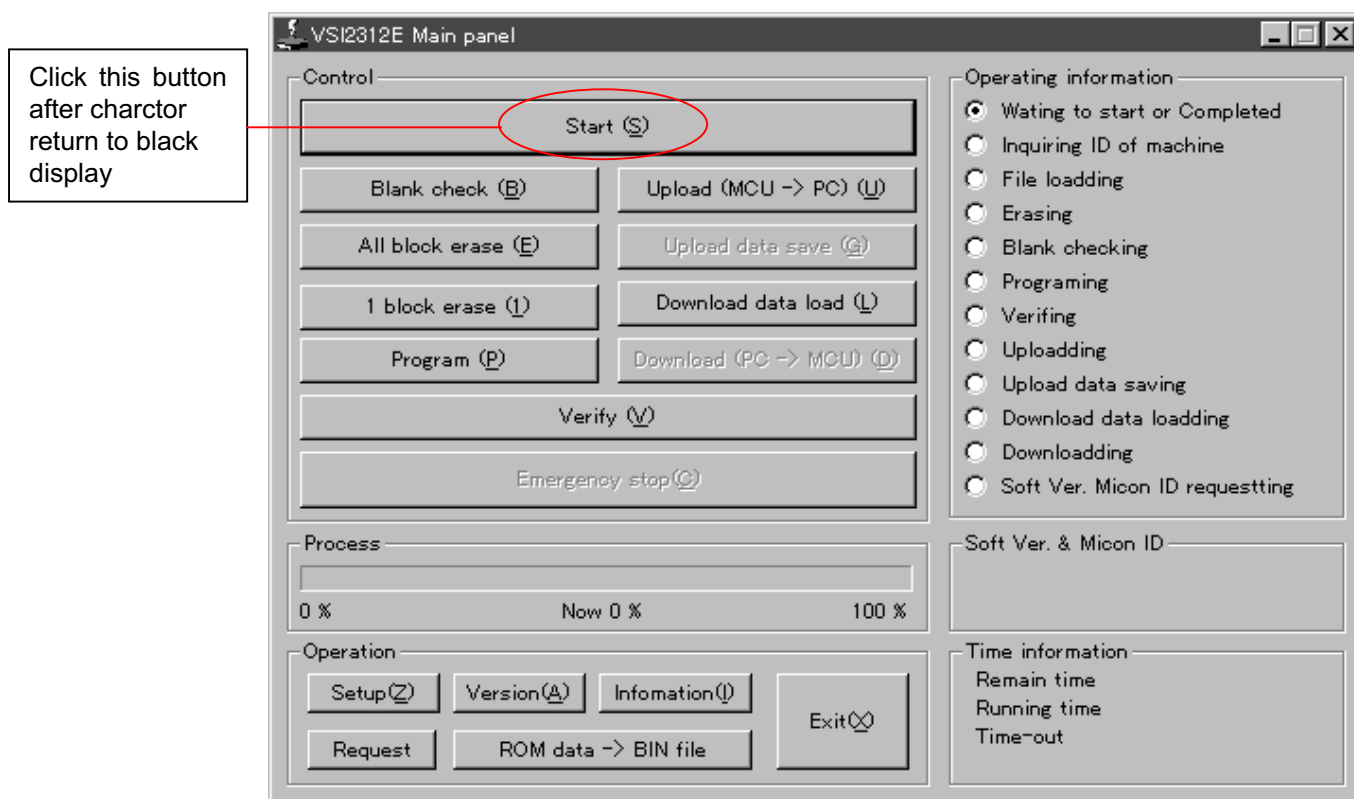
1. Boot up the personal computer in the condition that “9-2-2. Connection of the RS232C cable” and “9-2-3. Set Up Procedure of ROTARY SW” is completed.
2. Turn on the power of AJ-LT95. After turn on the power, the character “FLASH4” (in case of upgrade to VTR2 side, “FLASH5”) is displayed on Counter Display of VTR1 side and AJ-LT95 goes to Auto Off mode, then an Alarm beeps 4 times.
3. Boot up the flash memory version up software.  
(Double-click the program file “**VSI2312E.EXE**”, which had been copied to any directory, or create a shortcut to “**VSI2312E.EXE**” and double-click the shortcut.)
4. When this program is started, the “**Setup Panel**” will open as shown below.



5. Perform the following settings on the “**Setup Panel**”.
  - ☐ Microcomputer select..... **M32160F4UFP**
  - ☐ Writing data ..... **File data**  
Enter the new software (XXXX.mot) for the version upgrade with the full path. You can also use the “Browse...” button on the “Setup Panel” to select the file name and the location of the new software.
  - ☐ Port ..... Set the port which the RS-232C cable of the personal computer is connected.
  - ☐ Baud Rate..... **115200**
  - ☐ Stop Bits ..... **1Bit**
  - ☐ Byte Size..... **8Bits**
  - ☐ Parity ..... **None**



6. "When the settings on the "Setup Panel" is completed, click "Ok(O)". The "Main Panel" will be Setup Panel" opened as shown below.



7. Wait for loading the AVSYS soft program completely. When the program load is finished completely, the display "Start (S)" on "MAIN PANEL" return to black character.
8. Click "Start (S)" on the "Main Panel". (If you want to quit here, click "Exit". If you want to return again to the "Setup Panel", click "Setup(Z)".)
9. After erasing of the flash memory, the new software will be written to the flash memory. During the processing, the progress status can be confirmed by means of the "Process" indicator. If the indicator doesn't go advance for some reason, click "Emergency stop(C)" to stop the work, connect again, and confirm the settings.
10. When erasing and writing of the flash memory is completed, the "Process" indicator reaches 100%, and a black dot appears for "Wating to start or Complete" of "Operating information".
11. When the above status is gotten, click "Exit(X)" to end the program.
12. When the version upgrade is completed, turn off the power of AJ-LT95 and set the Rotary SW to "0" position (normal mode)
13. Turn on the power of AJ-LT95 and open the DIAG menu to confirm that the version is upgraded.

#### < Software Version confirmation procedure >

- (1). Press the DIAG (SHIFT + 9) buttons. (This cannot be done by remote control)  
The hour meter display appears on the VTR 1 and VTR 2 monitor screens.
- (2). Press the SHIFT + FF button so that the display changes from hour meter to software version.



## 9-4. Version Upgrade Procedure of SERVO Microprocessor

The SERVO microcomputer of the **MAIN CONTROL** circuit board has a built-in flash memory. For the software version up, use the “**Servo version up software (VFK1503)**” according to the following procedure.

1. Prepare a personal computer (MS-DOS, Windows 95 or 98).
2. Copy the servo version up software (VFK1503) and the new servo microcomputer software into the same directory of the personal computer. (The following four types of software.)

**Version up software (VFK1503)**  
**Servo microcomputer software**

“fw103u.exe”  
“vsiXXXX.obf”  
“vsiXXXX.bat”  
“vsiXXXX.ex”

3. Confirm that the condition where “**9-2-2. Connection of the RS232C cable**” and “**9-2-3. Set Up Procedure of ROTARY SW**” is completed.
4. Turn on the power of AJ-LT95. After turn on the power, the character “FLASH2” (in case of upgrade to VTR2 side, “FLASH3”) is displayed on Counter Display of VTR1 side and AJ-LT95 goes to Auto Off mode, then an Alarm beeps 4 times.
5. Execute the “**VSIXXX.bat**” copied to the personal computer. (During execution, the file “servo.exe” will be created, but this may be left in the directory without any problems.)
6. When the following screen is displayed, enter “Y” and press “**ENTER**”. (During program writing, the progress is shown on the display of the personal computer.)

```
/=== MN103004 FLASH ROM VERSION UP SOFTWARE ===/  
      1 file(s) copied  
/=== Initializing ===/  
Could not record flash memory exchange record.  
Do you continue ? Y/N > Y_
```



7. When writing is completed, the following screen appears. Press CTRL and C button to escape from DOS prompt.

```
fw103> #--- ââtâââbâUâââé|âââéâââé|éâââéâââéâââé ---
fw103> load servo.ex
Ex format file analysis ...
start loading

Zero writing before erase .
Erase block .
0x00002000 - 0x00003fff writing
0x00004000 - 0x00005fff writing
0x00006000 - 0x00007fff writing
0x00008000 - 0x00009fff writing
0x0000a000 - 0x0000bfff writing
0x0000c000 - 0x0000dfff writing
0x0000e000 - 0x0000ffff writing
0x00010000 - 0x00011fff writing
0x00012000 - 0x00013fff writing
0x00014000 - 0x00015fff writing
0x00016000 - 0x00017fff writing
0x00018000 - 0x00019fff writing
0x0001a000 - 0x0001bfff writing
0x0001c000 - 0x0001dfff writing

Load finished
fw103> q
```

8. When the version upgrade is completed, turn off the power of AJ-LT95 and set the Rotary SW to "0" position (normal mode)
9. Turn on the power of AJ-LT95 and open the DIAG menu to confirm that the version has been upgraded.

### < Software Version confirmation procedure >

- (1). Press the DIAG (SHIFT + 9) buttons. (This cannot be done by remote control)  
The hour meter display appears on the VTR 1 and VTR 2 monitor screens.
- (2). Press the SHIFT + FF button so that the display changes from hour meter to software version.



## 9-5. Version Upgrade Procedure of PLD(Xilinx)

The Main Control P.C.Board have PLD(Programable Logic Device, made by Xilinx). For the software version up, connect the “**CPLD WRITER(VFK1590)**” to the tool connection connector and use the “**Version Upgrade Software**” according to the following procedure.

### 9-5-1. Preparation

1. Following items are required for version upgrade.

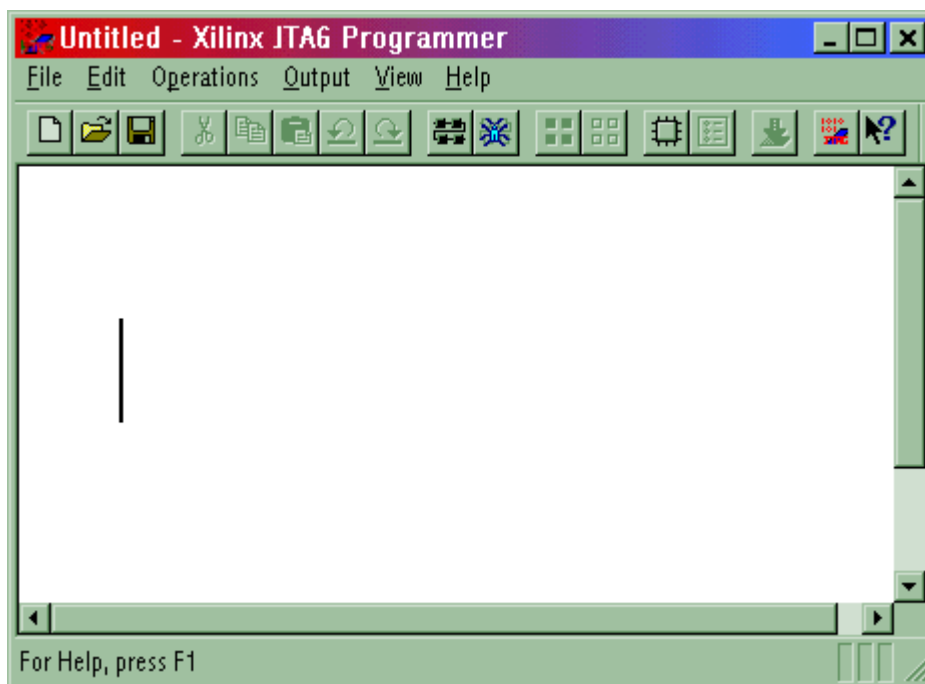
ITEM	REMARK
CPLD WRITER	VFK1590 (New)
D-sub 25pin-25pin Cable	Straight (Male—Female), Length : Within 1 meter
Version Upgrade Software	JTAG Programmer Software (Please download from <a href="http://www.xilinx.com">www.xilinx.com</a> )
Version Upgrade Data	CDF File (“VSIXXX” include it)
Personal Computer	WINDOWS 95® or 98®

### 9-5-2. Connection

1. Connect the D-sub cable between CN401 connector of the CPLD WRITER and Personal Computer(Printer port).
2. Connect the CPLD WRITER Cable between P21601 of Main Control P.C.Board and P4 connector of CPLD WRITER.
3. Boot up the Version Upgrade Software.

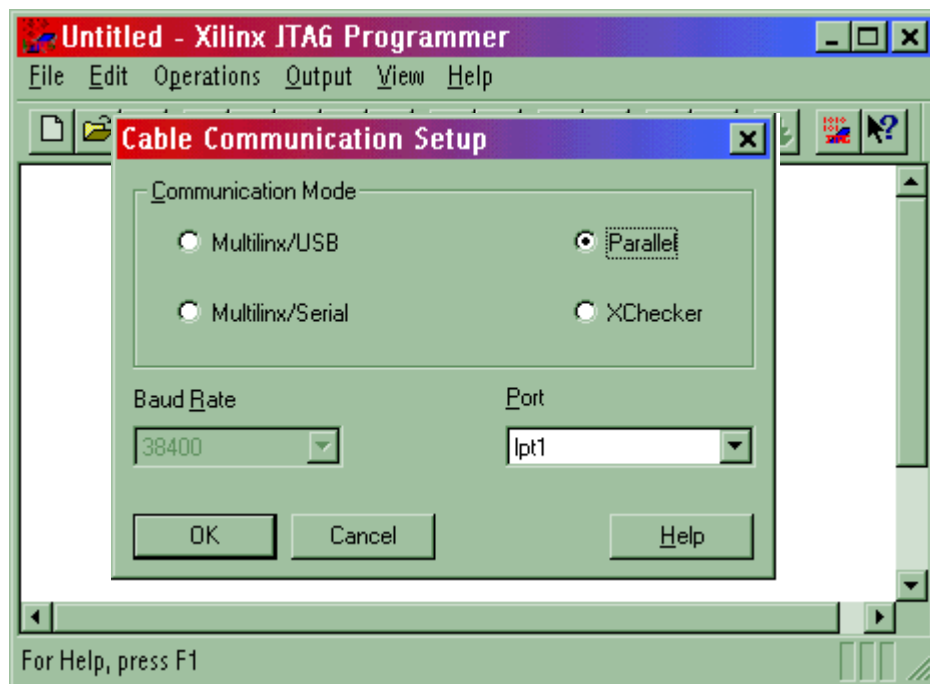
### 9-5-3. Boot up the Version Up Software and Version Up Procedure

1. After downloading the program, unpack the software. Click the start button of windows program “Xlinx CPLD Webpack”, then Device Program is boot up and following screen is appeared.

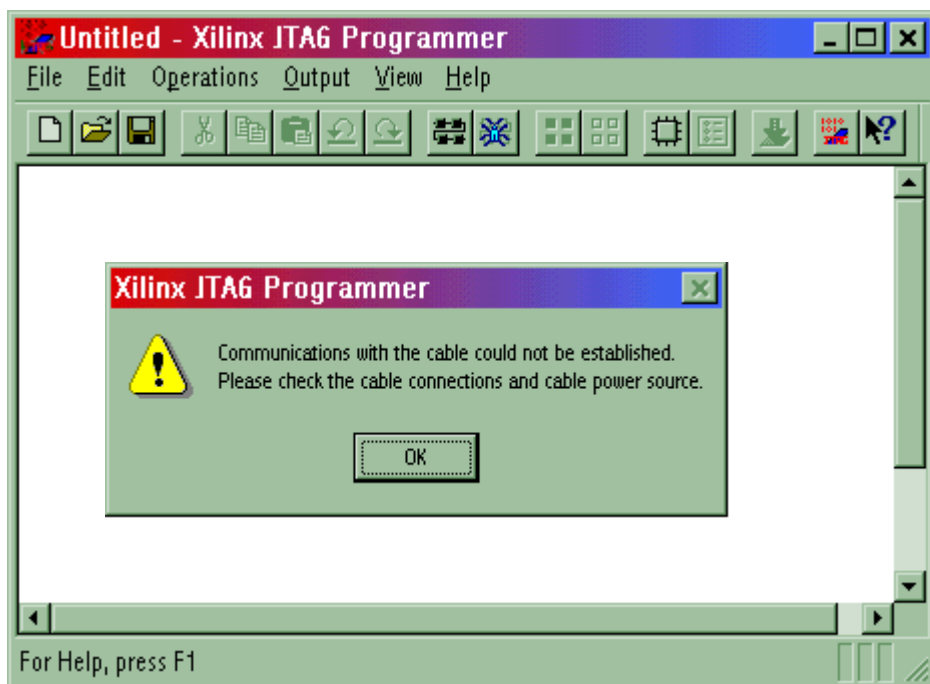




2. Click “OUTPUT” on the menu and select “Parallel” for Cable Communication Setup (default port is lpt1).



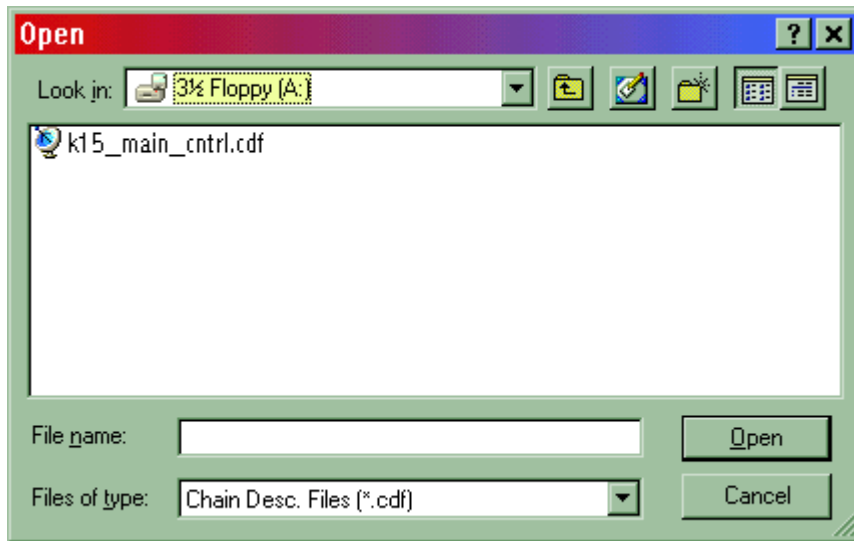
3. If connection is correct, message indicated below appears.



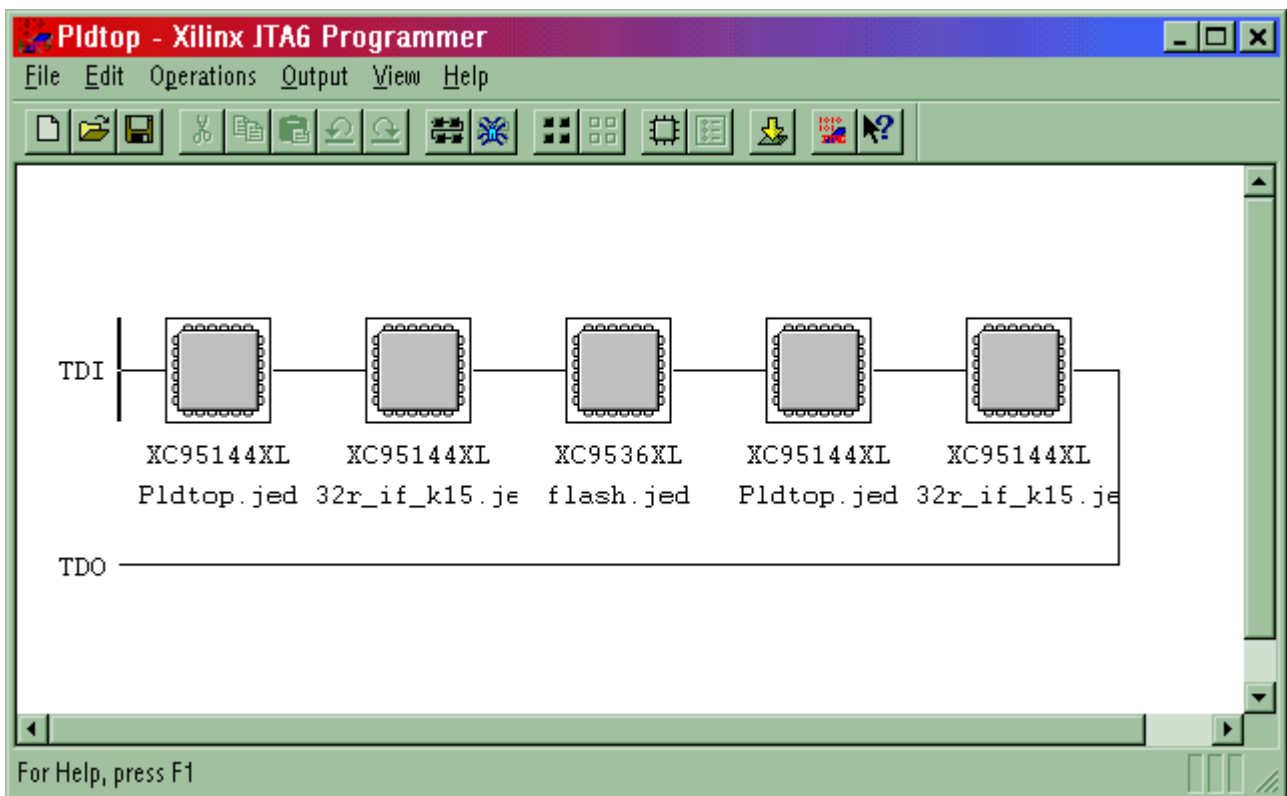
4. Click OK button.



5. Insert the update floppy disk into A drive.
6. Open the target file. This file called Chain Disc file, because one file can write several CPLDs like a chain.

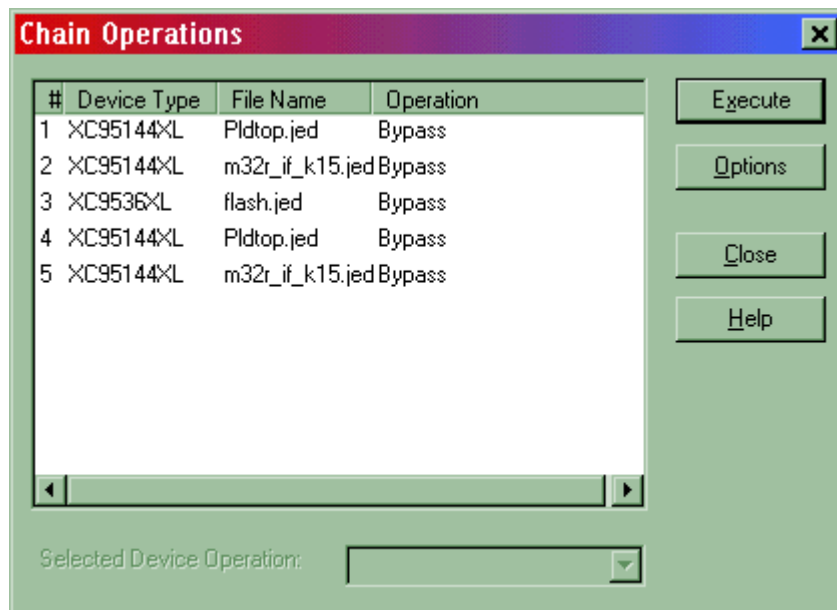


7. Click open button, then following screen appears.

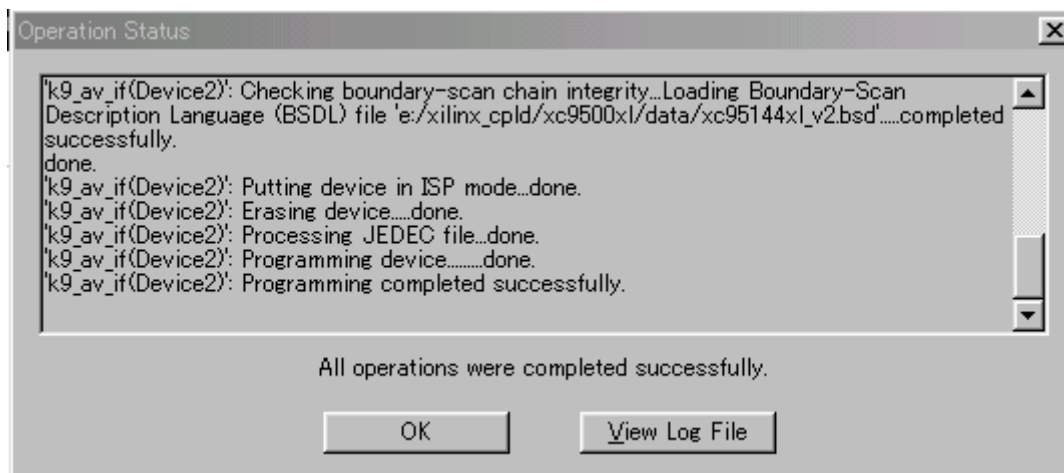


8. Then click "Operations" on the menu and select "Chain Operation". Then following screen appears.





- Click "Excute" button and after completion of data writing the following message is displayed. "All Operations were completed successfully".





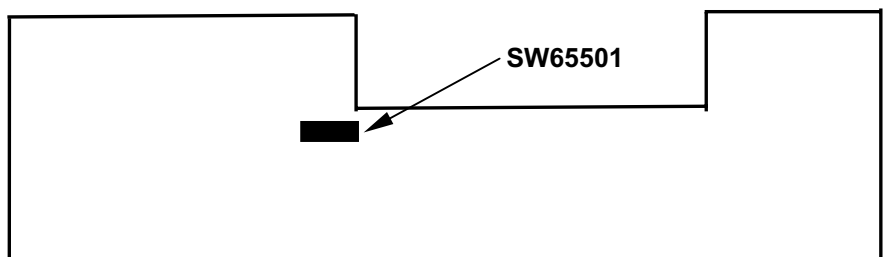
## 10. Internal Switch Setting Method

The switch setting on each circuit board are shown below.

The switches "Factory use only" must be set to the "factory setting".

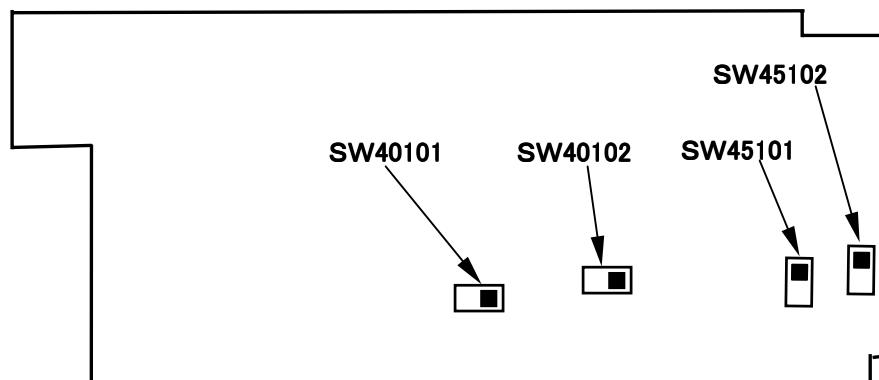
BOARD	Ref. No.	SW	FACTORY SETTING	FEATURE
MAIN CONTROL	SW65501	1	ON(FIXED)	Factory use only (For NTSC/PAL select)
		2	OFF(FIXED)	Factory use only (For NTSC/PAL select)
		3	OFF(FIXED)	Not Used
		4	OFF(FIXED)	Not Used
		5	OFF(FIXED)	Factory use only (For DEBUG)
		6	OFF(FIXED)	Factory use only (For DEBUG)
		7	OFF(FIXED)	Factory use only (AV RESET)
		8	ON(FIXED)	Factory use only (PLD ON)
DISPLAY CONTROL	SW68001	1	OFF(FIXED)	Factory use only (For DEBUG)
		2	OFF(FIXED)	Factory use only (For DEBUG)
		3	OFF(FIXED)	Factory use only (For DEBUG)
		4	OFF(FIXED)	Factory use only (For DEBUG)
		5	OFF(FIXED)	Factory use only (For DEBUG)
		6	OFF(FIXED)	Factory use only (For DEBUG)
AV IO	SW42201	1	ON(FIXED)	Factory use only
		2	ON(FIXED)	Factory use only
AUDIO VIDEO	SW40101	–	HIGH(10K $\Omega$ )	VTR1 CH1 Audio input impedance setting(600 $\Omega$ / HIGH)
	SW40102	–	HIGH(10K $\Omega$ )	VTR1 CH2 Audio input impedance setting(600 $\Omega$ / HIGH)
	SW45101	–	HIGH(10K $\Omega$ )	VTR2 CH1 Audio input impedance setting(600 $\Omega$ / HIGH)
	SW45102	–	HIGH(10K $\Omega$ )	VTR2 CH2 Audio input impedance setting(600 $\Omega$ / HIGH)

### MAIN CONTROL P.C. Board



(Component side)

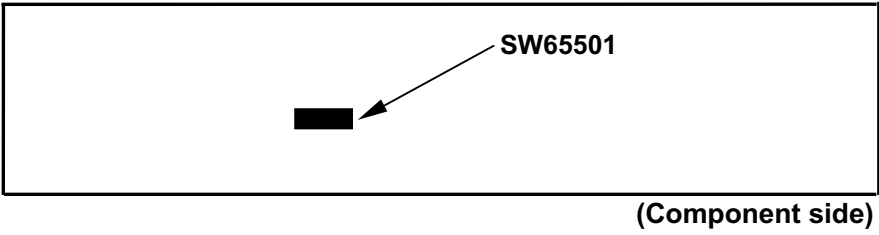
### AUDIO VIDEO P.C. Board



(Component side)



**DISPLAY CONTROL P.Cboard**



**AV IO P.C.Board**





# 11. Error Rate Display and Confirmation Procedure

The error rate can be confirmed at normal and service mode.

## (1). Display procedure without open the service menu. (During normal operation)

1. While pressing [SHIFT] button, press [EVENT],[IN] and [OUT] button simultaneously so that the Audio Level Meter changes into the VIDEO Error Rate Display.(Effective only during pressing the buttons)
2. While pressing [SHIFT] button, press [IN],[OUT] and [DUR] button simultaneously so that the Audio Level Meter changes into the AUDIO Error Rate Display.(Effective only during pressing the buttons)
3. CH1 and CH2 lamp lights in only Video Error rate display mode as indicated below.
4. CH3 and CH4 lamp lights in only Audio Error rate display mode as indicated below.
5. L1 head output signal is apply to CH1 level meter display and L2, R1 and R2 head output signals apply to CH2,CH3 and CH4 level meter display as indicated below.

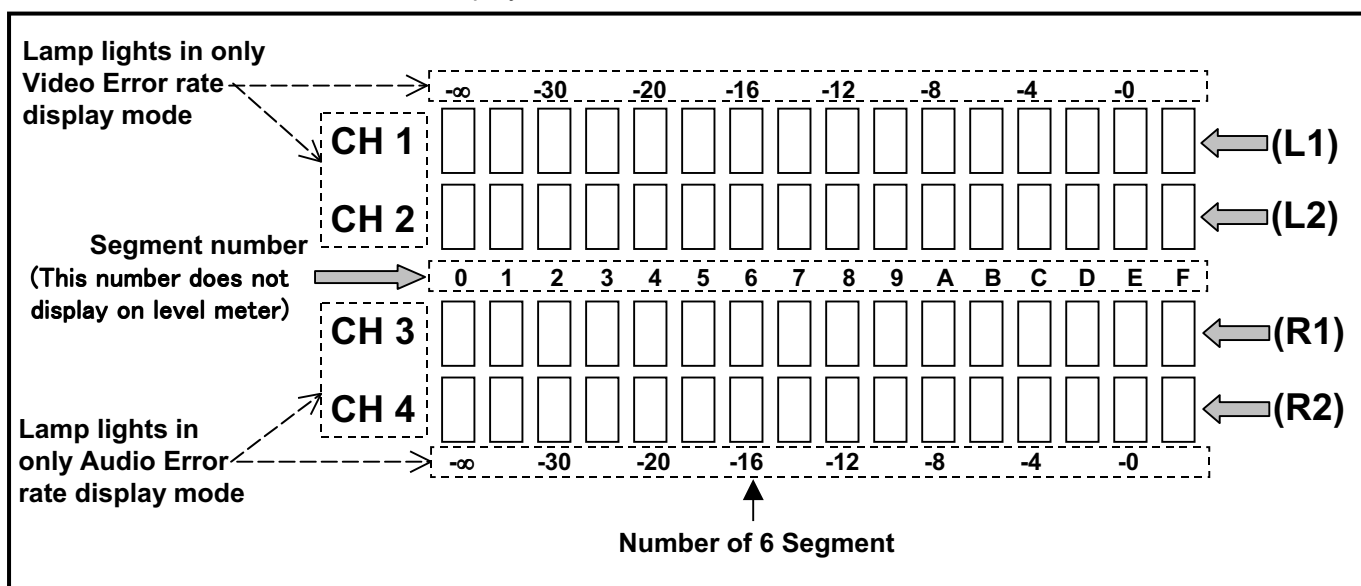


Figure 1

## (2). Display Procedure with opening service menu (On service mode)

1. Press [SHIFT] and [7] buttons simultaneously so that the set up menu is opened.
2. Press [SHIFT],[PLAY],[STILL],[REW] and [FF] buttons simultaneously so that the service menu is opened.
3. Select any item of ADJUST menu by JOG Dial and press [MARK IN] button so that the Audio Level Meter changes into the VIDEO Error Rate Display.

**NOTE :** In case of confirmation of the Audio error rate, while pressing [SHIFT] button, press [IN],[OUT] and [DUR] button simultaneously as same as normal condition so that the Video Error rate display changes into the AUDIO Error Rate Display.(Effective only during pressing the buttons)



### (3). Standard of Error rate

Please refer to standard of error rate in the VTR mode on normal or Service mode condition indicated as below.

VTR mode	Standard of Error Rate (Video Error Rate)
Alignment Tape Playback ( 50M PB Head )	Under the " 6 " position on Level Meter  <b>NOTE 1:</b> " 6 " is indicated as segment number (refer to figure 1) <b>NOTE 2:</b> The error rate on RP Head playback can not be confirmed on normal mode.
Alignment Tape Playback ( 50M RP Head )	
Alignment Tape Playback ( 25M RP Head )	
Alignment Tape Playback ( 25M PB Head )	
Self Recorded Playback (50M)	
Self Recorded Playback (25M)	

### (4). Comparison of Error Rate and Channel Condition lamp

The channel condition lamp on Counter Display light according to the condition of error rate. Refer the following figure 2 for the comparison of error rate and channel condition lamp

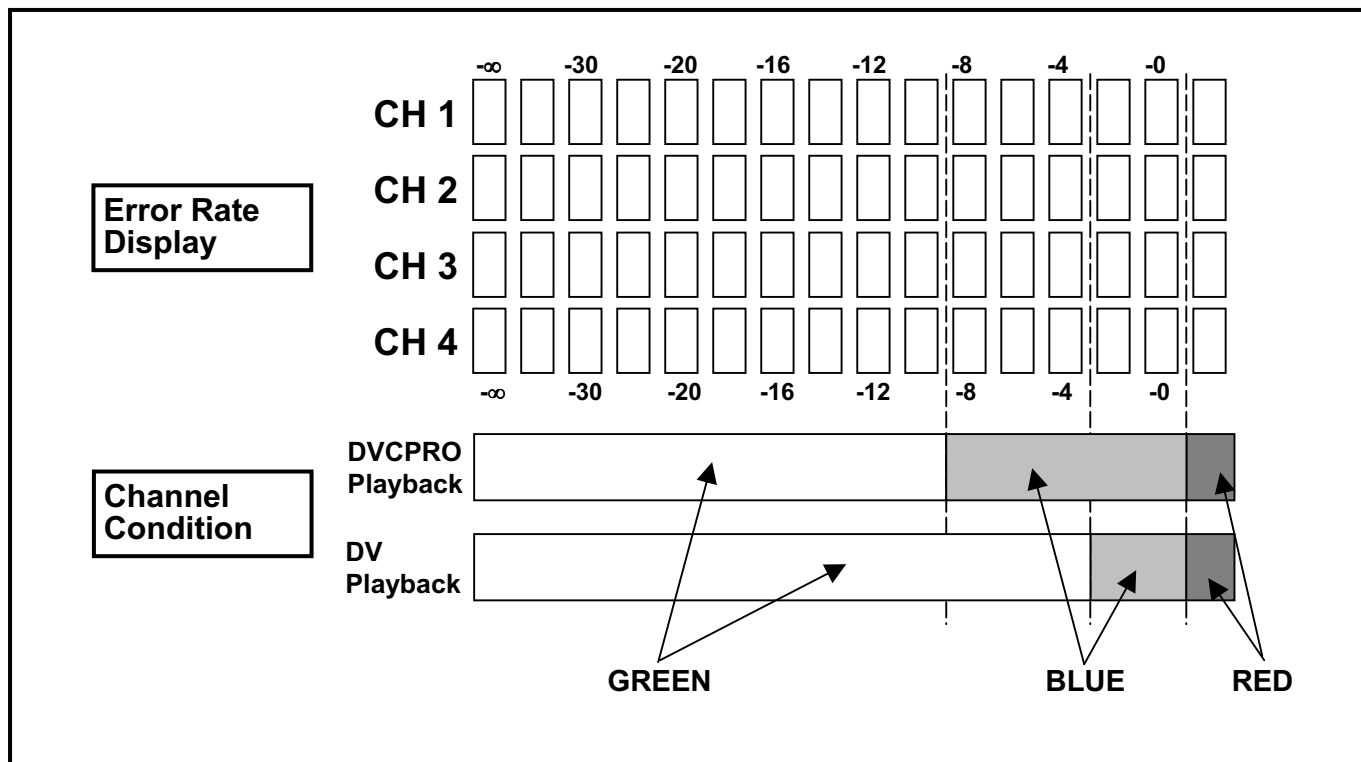


Figure 2



## 12. Service Menu Information

### 12-1. Service Menu Operation Method

#### < Condition >

1. Set the Control Switch on the Key Panel to "LOCAL" side.
2. Set the search dial to Jog mode.

#### < To get into Service Menu mode >

1. Press the "SHIFT" and "7" button simultaneously so that the SET UP menu is displayed on the LCD display and then press the "SHIFT" + "PLAY" + "STILL" + "REW" + "FF" button simultaneously so that the Main menu of Service menu is displayed.
2. Move the cursor "\*" by search Dial and select the item on the Main menu.
3. Press the "MARK IN" button, then open the Adjustment Menu selected on the Main menu.

**Note:** The contents of each Adjustment menu are described on behind page.

SERVICE-MENU	
VTR1—7.06 No. A00	
* A00	: SERVO ADJUST
B00	: RF 50M PB ADJUST
C00	: RF 50M RP ADJUST
D00	: RF 50M REC ADJUST
E00	: RF 25M PB ADJUST
F00	: RF 25M RP ADJUST
G00	: RF 25M REC ADJUST
H00	: VIDEO ADJUST
I00	: SYSTEM ADJUST

(MAIN MENU)

#### <To get back to normal mode from Service Menu mode >

By Pressing the "SHIFT" and "7" button simultaneously under the Main menu of both VTR1 and 2 displayed, can get back to normal mode.

#### <Button's function to be used on the Service Menu >

- [ VTR1 ]      ① Select the operation of VTR1 side.(Turn on LED of VTR1 button)
- [ VTR2 ]      ① Select the operation of VTR2 side.(Turn on LED of VTR2 button)  
**NOTE:** Can not select VTR1 and VTR2 simultaneously.
- [ MARK IN ]      ① Move to each Adjustment Menu (A00 to I00) from Main Menu.  
Execute the setting of item TAP and VCO on RF ADJUST menu
- [ MARK OUT ]      ① Move to Main Menu from each ADJUST Menu.
- [ DIAL ] (JOG mode)      ① Move the cursor "\*" to select the each item.
- [ SHIFT ] + [ FF ]      ① Move the cursor "\*" ahead of 9 items.
- [ SHIFT ] + [ REW ]      ① Move the cursor "\*" back of 9 items.
- [ VTR1/2 ] + [ DIAL ]      ① Change the adjustment value when item is selected.  
(Increase adjustment value by turning Search Dial to clockwise and decrease adjustment value by turning Search Dial to counter-clockwise.)
- [ VTR1/2 ] + [ + ]/[ - ]      ① Change the adjustment value when item is selected.  
(Increase adjustment value by pressing "VTR1/2" + "+" button and decrease adjustment value by pressing "VTR1/2" + "-" button.)  
**NOTE:** By items, the condition is kept, once "VTR1/2" button is pressed. To release from this condition, press "C" button.



## 12-2. Service Menu Contents

### A00: SERVO

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
A01	T OFFSET	-128~ <u>80</u> ~127	<b>Torque Command Offset value Adjustment of T REEL</b> This shall be done in EJECT condition. <Operation> 1. Press the [ VTR1/2 ] button 2. Adjust the value by press the [ VTR1/2 ] + [ + ] or [ - ] button. 3. Release the [ VTR1/2 ] button after adjustment is done.	
A02	S OFFSET	-128~ <u>80</u> ~127	<b>Torque Command Offset value Adjustment of S REEL</b> This shall be done in EJECT condition. <Operation> 1. Press the [ VTR1/2 ] button 2. Adjust the value by press the [ VTR1/2 ] + [ + ] or [ - ] button. 3. Release the [ VTR1/2 ] button after adjustment is done.	
A03	T TORQUE	-128~ <u>0</u> ~127	<b>Compensation of the T-reel driver offset value</b> This shall be done in EJECT condition. <Operation>: 1. The following operations will start when the [ VTR1/2 ] button is pressed. 1) T-brake OFF 2) Cylinder rotation 3) Loading is completed 2. Set the value with the [ + ] or [ - ] button. (Not require pressing [ VTR1/2 ] button) 3. Press the [ C ] button after setting is completed. 1) Unloading is completed 2) Cylinder stop 3) T-brake ON	
A04	S TORQUE	-128~ <u>0</u> ~127	<b>Compensation of the S-reel driver offset value</b> This shall be done in EJECT condition. <Operation>: 1. The following operations will start when the [ VTR1/2 ] button is pressed. 1) S-brake OFF 2) Cylinder rotation 3) Loading is completed 2. Set the value with the [ + ] or [ - ] button. (Not require pressing [ VTR1/2 ] button) 3. Press the [ C ] button after setting is completed. 1) Unloading is completed. 2) Cylinder stop 3) S-brake ON	
A05	TENSION OFST	-128~ <u>5</u> ~127	<b>Tension offset value adjustment.</b> This shall be done in EJECT condition. <Operation>: 1. Press the [ VTR1/2 ] button. 2. Set the value with the [ + ] or [ - ] button. (Not require pressing [ VTR1/2 ] button) 3. Press the [ ENTER ] button. Loading is done and reel torque is off. 4. Press the [ C ] button after setting is completed.	
A06	PG SFTR 50 R	0~ <u>3288</u> ~8191	<b>PG SHIFTER automatic adjustment for 50M</b> <Operation>: 1. Insert the alignment tape. 2. While pressing [VTR1/2] button, automatic adjustment is done. The value indication will change to "0000" and the tape is played automatically, then adjustment start. 3. When the set value is displayed, adjustment is completed. Then release the [ VTR1/2 ] button.	
	PG SFTR 50 F	0~ <u>3288</u> ~8191		



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
A07	PG SFTR 25 R	0~ <u>1649</u> ~4095	<b>PG SHIFTER automatic adjustment for 25M mode</b> <Operation>: 1. Insert the alignment tape. 2. While pressing [VTR1/2] button, automatic adjustment is done. The value indication will change to "0000" and the tape is played automatically, then adjustment start. 3. When the set value is displayed, adjustment is completed. Then release the [ VTR1/2 ] button.	
	PG SFTR 25 F	0~ <u>1649</u> ~4095		
A08	X VALUE 50	-128~ <u>0</u> ~127	<b>Electrical fine adjustment of the X-value for 50M mode.</b> <Operation>: 1. Insert the alignment tape. 2. While pressing [VTR1/2] button, automatic adjustment is done. The set value indication will go out and the tape is played automatically, then adjustment start. 3. When the set value is displayed, adjustment is completed. Then release the [ VTR1/2 ] button.	N/A
A09	X VALUE 25	-128~ <u>0</u> ~127	<b>Electrical fine adjustment of the X-value for 25M mode.</b> <Operation>: 1. Insert the alignment tape. 2. While pressing [VTR1/2] button, automatic adjustment is done. The set value indication will go out and the tape is played automatically, adjustment start. 3. When the set value is displayed, adjustment is completed. Then release the [ VTR1/2 ] button.	N/A
A10	RP GAIN 50M	-128~ <u>0</u> ~127	<b>LISTA SENSITIVITY adj. (RP HEAD) for DVCPRO 50M</b> <Operation>: 1. Insert the alignment tape. 2. Press the [ VTR1/2 ] button. The tape is played automatically. 3. Set the value with the [ + ] or [ - ] button. 4. Press the [ C ] button when setting is completed.	
A11	RP LIN 50M	—	<b>LISTA LINEARITY adj. (RP HEAD) for DVCPRO 50M</b> <Operation>: 1. Press the [ VTR1/2 ] button to move to the measurement mode. 2. Press the [ C ] button when setting is completed.	
A12	PB GAIN 50M	-128~ <u>0</u> ~127	<b>LISTA SENSITIVITY adj. (PB HEAD) for DVCPRO 50M</b> <Operation>: 1. Insert the alignment tape. 2. Press the [ VTR1/2 ] button. The tape is played automatically. 3. Set the value with the [ + ] or [ - ] button. 4. Press the [ C ] button when setting is completed.	
A13	PB LIN 50M	—	<b>LISTA LINEARITY adj. (PB HEAD) for DVCPRO 50M</b> <Operation>: 1. Press the [ VTR1/2 ] button to move to the measurement mode. 2. Press the [ C ] button when setting is completed.	



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
A14	RP GAIN 25M	-128~ <u>0</u> ~127	<b>LISTA SENSITIVITY adj. (RP HEAD) for DVCPRO 25M</b> <Operation>: 1. Insert the alignment tape. 2. Press the [ VTR1/2 ] button. The tape is played automatically. 3. Set the value with the [ + ] or [ - ] button. 4. Press the [ C ] button when setting is completed.	
A15	RP LIN 25M	—	<b>LISTA LINEARITY Adj. (RP HEAD) for DVCPRO 25M</b> <Operation>: 1. Press the [ VTR1/2 ] button to move to the measurement mode. 2. Press the [ C ] button when setting is completed.	
A16	PG GAIN 25M	-128~ <u>0</u> ~127	<b>LISTA SENSITIVITY adj. (PB HEAD) for DVCPRO 25M</b> <Operation>: 1. Insert the alignment tape. 2. Press the [ VTR1/2 ] button. The tape is played automatically. 3. Set the value with the [ + ] or [ - ] button. 4. Press the [ C ] button when setting is completed.	
A17	PB LIN 25M	—	<b>LISTA LINEARITY adj. (PB HEAD) for DVCPRO 25M</b> <Operation>: 1. Press the [ VTR1/2 ] button to move to the measurement mode. 2. Press the [ C ] button when setting is completed.	
A18	MOTOR CHECK	<b>OFF</b> CAPS. DRUM T REEL S REEL	<b>Check the motor operation</b> <Operation>: After selected the each item, then selected motor start rotation.	N/A
A19	REC DATA SEL	<b>CW</b> CW/2 CW/4	<b>Select the recording data</b>	



## B00: RF 50M PB

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
B01	PB MAG L1	0~ <u>128</u> ~255	Playback Output Gain Correction for PB L1ch head	
B02	PB MAG L2	0~ <u>128</u> ~255	Playback Output Gain Correction for PB L2ch head	
B03	PB PHASE L1	0~ <u>128</u> ~255	Playback Phase Correction for PB L1ch head	
B04	PB PHASE L2	0~ <u>128</u> ~255	Playback Phase Correction for PB L2ch head	
B05	PB MAG R1	0~ <u>128</u> ~255	Playback Output Gain Correction for PB R1ch head	
B06	PB MAG R2	0~ <u>128</u> ~255	Playback Output Gain Correction for PB R2ch head	
B07	PB PHASE R1	0~ <u>128</u> ~255	Playback Phase Correction for PB R1ch head	
B08	PB PHASE R2	0~ <u>128</u> ~255	Playback Phase Correction for PB R2ch head	
B09	PB SMAG L1	0~ <u>128</u> ~255	PB L1ch Playback Output Gain for ATF playback	
B10	PB SMAG L2	0~ <u>128</u> ~255	PB L2ch Playback Output Gain for ATF playback	
B11	PB SMAG R1	0~ <u>128</u> ~255	PB R1ch Playback Output Gain for ATF playback	
B12	PB SMAG R2	0~ <u>128</u> ~255	PB R1ch Playback Output Gain for ATF playback	
B13	VITERBI	OFF <u>ON</u>	The VITERBI mode is set Only effective on SERVICE MENU	
B14	ERROR MODE	<u>FAST</u> SLOW	The ERROR RATE display mode is set Only effective on SERVICE MENU	
B15	25M TAPE PLAY	<u>ATF</u> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF50R	Force Playback with setting servo to the selected format Only effective on SERVICE MENU	
B16	AUTO EQ	OFF <u>ON</u>	PB EQUALIZER AUTO Adj. ON/OFF Only effective on SERVICE MENU	
B17	STB ON	0 <u>1</u>	Setting of EQ IC software	Factory use only
B18	FLTD	0 <u>1</u>	Setting of EQ IC software	Factory use only
B19	FLTLG	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
B20	VCASP	0 <u>1</u>	Setting of EQ IC software	Factory use only
B21	AGSPD	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
B22	AQSPTR	0 <u>1</u>	Setting of EQ IC software	Factory use only
B23	SPTRTH	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
B24	EQSPD	0~ <u>1</u> ~3	Setting of EQ IC software	Factory use only



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
B25	PXIBT	0~ <u>3</u>	Setting of EQ IC software	Factory use only
B26	PLLA	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
B27	PCFIX	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
B28	PLLB	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
B29	AGCO	0~ <u>96</u> ~255	Setting of EQ IC software	Factory use only
B30	VCOA	0 <u>1</u>	Setting of EQ IC software	Factory use only
B31	VCATH	0~ <u>56</u> ~127	Setting of EQ IC software	Factory use only
B32	THEYE	0~ <u>110</u> ~255	Setting of EQ IC software	Factory use only
B33	THULK	0~ <u>94</u> ~255	Setting of EQ IC software	Factory use only
B34	ENVTH	0~ <u>16</u> ~255	Setting of EQ IC software	Factory use only
B35	ATFGL	0~ <u>128</u> ~255	Burst Phase adjustment (PAL)	
B36	ATFGR	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
B37	VCO	—	<b>SAVE or LOAD the VCO Center Frequency</b> <Operation>: 1. Press the [ MARK IN ] button, then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
B38	TAP	—	<b>SAVE or LOAD the TAP Coefficient</b> <Operation>: 1. Press the [ MARK IN ] button, then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
B39	DEFAULT	—	<b>Factory default setting</b> <Operation>: 1. Press the [ MARK IN ] button, then the message "LOAD" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	N/A



## C00: RF 50M RP

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
C01	RP MAG L1	0~ <u>128</u> ~255	Playback Output Gain Correction for RP L1ch head	
C02	RP MAG L2	0~ <u>128</u> ~255	Playback Output Gain Correction for RP L2ch head	
C03	RP PHASE L1	0~ <u>128</u> ~255	Playback Phase Correction for RP L1ch head	
C04	RP PHASE L2	0~ <u>128</u> ~255	Playback Phase Correction for RP L2ch head	
C05	RP MAG R1	0~ <u>128</u> ~255	Playback Output Gain Correction for RP R1ch head	
C06	RP MAG R2	0~ <u>128</u> ~255	Playback Output Gain Correction for RP R2ch head	
C07	RP PHASE R1	0~ <u>128</u> ~255	Playback Phase Correction for RP R1ch head	
C08	RP PHASE R2	0~ <u>128</u> ~255	Playback Phase Correction for RP R2ch head	
C09	RP SMAG L1	0~ <u>128</u> ~255	RP L1ch Playback Output Gain for ATF playback	
C10	RP SMAG L2	0~ <u>128</u> ~255	RP L2ch Playback Output Gain for ATF playback	
C11	RP SMAG R1	0~ <u>128</u> ~255	RP R1ch Playback Output Gain for ATF playback	
C12	RP SMAG R2	0~ <u>128</u> ~255	RP R1ch Playback Output Gain for ATF playback	
C13	VITERBI	OFF <u>ON</u>	The VITERBI mode is set Only effective on SERVICE MENU	
C14	ERROR MODE	<u>FAST</u> SLOW	The ERROR RATE display Mode is set Only effective on SERVICE MENU	
C15	25M TAPE PLAY	<u>ATF</u> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF25R	Force Playback with setting servo to the selected format Only effective on SERVICE MENU	
C16	AUTO EQ	OFF <u>ON</u>	PB EQUALIZER AUTO Adj. ON/OFF Only effective on SERVICE MENU	
C17	STB ON	0 <u>1</u>	Setting of EQ IC software	Factory use only
C18	FLTD	0 <u>1</u>	Setting of EQ IC software	Factory use only
C19	FLTLG	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
C20	VCASP	0 <u>1</u>	Setting of EQ IC software	Factory use only
C21	AGSPD	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
C22	AQSPTR	0 <u>1</u>	Setting of EQ IC software	Factory use only
C23	SPTRTH	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
C24	EQSPD	0~ <u>1</u> ~3	Setting of EQ IC software	Factory use only



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
C25	PXIBT	0~ <u>3</u>	Setting of EQ IC software	Factory use only
C26	PLLA	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
C27	PCFIX	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
C28	PLLB	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
C29	AGCO	0~ <u>96</u> ~255	Setting of EQ IC software	Factory use only
C30	VCOA	0 <u>1</u>	Setting of EQ IC software	Factory use only
C31	VCATH	0~ <u>56</u> ~127	Setting of EQ IC software	Factory use only
C32	THEYE	0~ <u>110</u> ~255	Setting of EQ IC software	Factory use only
C33	THULK	0~ <u>94</u> ~255	Setting of EQ IC software	Factory use only
C34	ENVTH	0~ <u>16</u> ~255	Setting of EQ IC software	Factory use only
C35	ATFGL	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
C36	ATFGR	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
C37	VCO FREQ	—	<b>SAVE or LOAD the VCO Center Frequency</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
C38	TAP	—	<b>SAVE or LOAD the TAP Coefficient</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
C39	DEFAULT	—	<b>Factory default setting</b> <Operation>: 1. Press the [ MARK IN ] button then the message "LOAD" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	N/A



**D00: RF 50M REC**

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
D01	REC CURR L1	0~ <u>200</u> ~255	Setting of Recording current value for RP L1ch head	
D02	REC CURR L2	0~ <u>200</u> ~255	Setting of Recording current value for RP L2ch head	
D03	REC FREQ L1	0~ <u>200</u> ~255	Setting of Recording frequency value for RP L1ch head	
D04	REC FREQ L2	0~ <u>200</u> ~255	Setting of Recording frequency value for RP L2ch head	
D05	REC CURR R1	0~ <u>200</u> ~255	Setting of Recording current value for RP R1ch head	
D06	REC CURR R2	0~ <u>200</u> ~255	Setting of Recording current value for RP R2ch head	
D07	REC FREQ R1	0~ <u>200</u> ~255	Setting of Recording frequency value for RP R1ch head	
D08	REC FREQ R2	0~ <u>200</u> ~255	Setting of Recording frequency value for RP R2ch head	



## E00: RF 25M PB

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
E01	PB MAG L1	0~ <u>128</u> ~255	Playback Output Gain Correction for PB L1ch head	
E02	PB MAG L2	0~ <u>128</u> ~255	Playback Output Gain Correction for PB L2ch head	
E03	PB PHASE L1	0~ <u>128</u> ~255	Playback Phase Correction for PB L1ch head	
E04	PB PHASE L2	0~ <u>128</u> ~255	Playback Phase Correction for PB L2ch head	
E05	PB MAG R1	0~ <u>128</u> ~255	Playback Output Gain Correction for PB R1ch head	
E06	PB MAG R2	0~ <u>128</u> ~255	Playback Output Gain Correction for PB R2ch head	
E07	PB PHASE R1	0~ <u>128</u> ~255	Playback Phase Correction for PB R1ch head	
E08	PB PHASE R2	0~ <u>128</u> ~255	Playback Phase Correction for PB R2ch head	
E09	PB SMAG L1	0~ <u>128</u> ~255	PB L1ch Playback Output Gain for ATF playback	
E10	PB SMAG L2	0~ <u>128</u> ~255	PB L2ch Playback Output Gain for ATF playback	
E11	PB SMAG R1	0~ <u>128</u> ~255	PB R1ch Playback Output Gain for ATF playback	
E12	PB SMAG R2	0~ <u>128</u> ~255	PB R1ch Playback Output Gain for ATF playback	
E13	VITERBI	OFF <u>ON</u>	The VITERBI mode is set Only effective on SERVICE MENU	
E14	ERROR MODE	<u>FAST</u> SLOW	The ERROR RATE display mode is set Only effective on SERVICE MENU	
E15	25M TAPE PLAY	<u>ATF</u> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF25R	Force Playback with setting servo to the selected format Only effective on SERVICE MENU	
E16	AUTO EQ	OFF <u>ON</u>	PB EQUALIZER AUTO Adj. ON/OFF Only effective on SERVICE MENU	
E17	STB ON	0 <u>1</u>	Setting of EQ IC software	Factory use only
E18	FLTD	0 <u>1</u>	Setting of EQ IC software	Factory use only
E19	FLTLG	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
E20	VCASP	0 <u>1</u>	Setting of EQ IC software	Factory use only
E21	AGSPD	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
E22	AQSPTR	0 <u>1</u>	Setting of EQ IC software	Factory use only
E23	SPTRTH	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
E24	EQSPD	0~ <u>1</u> ~3	Setting of EQ IC software	Factory use only



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
E25	PXIBT	0~ <u>3</u>	Setting of EQ IC software	Factory use only
E26	PLLA	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
E27	PCFIX	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
E28	PLLB	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
E29	AGCO	0~ <u>96</u> ~255	Setting of EQ IC software	Factory use only
E30	VCOA	0 <u>1</u>	Setting of EQ IC software	Factory use only
E31	VCATH	0~ <u>56</u> ~127	Setting of EQ IC software	Factory use only
E32	THEYE	0~ <u>110</u> ~255	Setting of EQ IC software	Factory use only
E33	THULK	0~ <u>94</u> ~255	Setting of EQ IC software	Factory use only
E34	ENVTH	0~ <u>16</u> ~255	Setting of EQ IC software	Factory use only
E35	ATFGL	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
E36	ATFGR	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
E37	VCO	—	<b>SAVE or LOAD the VCO Center Frequency</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
E38	TAP	—	<b>SAVE or LOAD the TAP Coefficient</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
E39	DEFAULT	—	<b>Factory default setting</b> <Operation>: 1. Press the [ MARK IN ] button and the message "LOAD" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	N/A



## F00: RF 25M RP

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
F01	RP MAG L1	0~ <u>128</u> ~255	Playback Output Gain Correction for RP L1ch head	
F02	RP MAG L2	0~ <u>128</u> ~255	Playback Output Gain Correction for RP L2ch head	
F03	RP PHASE L1	0~ <u>128</u> ~255	Playback Phase Correction for RP L1ch head	
F04	RP PHASE L2	0~ <u>128</u> ~255	Playback Phase Correction for RP L2ch head	
F05	RP MAG R1	0~ <u>128</u> ~255	Playback Output Gain Correction for RP R1ch head	
F06	RP MAG R2	0~ <u>128</u> ~255	Playback Output Gain Correction for RP R2ch head	
F07	RP PHASE R1	0~ <u>128</u> ~255	Playback Phase Correction for RP R1ch head	
F08	RP PHASE R2	0~ <u>128</u> ~255	Playback Phase Correction for RP R2ch head	
F09	RP SMAG L1	0~ <u>128</u> ~255	RP L1ch Playback Output Gain for ATF playback	
F10	RP SMAG L2	0~ <u>128</u> ~255	RP L2ch Playback Output Gain for ATF playback	
F11	RP SMAG R1	0~ <u>128</u> ~255	RP R1ch Playback Output Gain for ATF playback	
F12	RP SMAG R2	0~ <u>128</u> ~255	RP R1ch Playback Output Gain for ATF playback	
F13	VITERBI	OFF <u>ON</u>	The VITERBI mode is set Only effective on SERVICE MENU	
F14	ERROR MODE	<u>FAST</u> SLOW	The ERROR RATE display Mode is set Only effective on SERVICE MENU	
F15	25M TAPE PLAY	<u>ATF</u> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF25R	Force Playback with setting servo to the selected format Only effective on SERVICE MENU	
F16	AUTO EQ	OFF <u>ON</u>	PB EQUALIZER AUTO Adj. ON/OFF Only effective on SERVICE MENU	
F17	STB ON	0 <u>1</u>	Setting of EQ IC software	Factory use only
F18	FLTD	0 <u>1</u>	Setting of EQ IC software	Factory use only
F19	FLTLG	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
F20	VCASP	0 <u>1</u>	Setting of EQ IC software	Factory use only
F21	AGSPD	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
F22	AQSPTR	0 <u>1</u>	Setting of EQ IC software	Factory use only
F23	SPTRTH	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
F24	EQSPD	0~ <u>1</u> ~3	Setting of EQ IC software	Factory use only



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
F25	PXIBT	0~ <u>3</u>	Setting of EQ IC software	Factory use only
F26	PLLA	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
F27	PCFIX	0~ <u>2</u> ~3	Setting of EQ IC software	Factory use only
F28	PLLB	0~ <u>21</u> ~63	Setting of EQ IC software	Factory use only
F29	AGCO	0~ <u>96</u> ~255	Setting of EQ IC software	Factory use only
F30	VCOA	0 <u>1</u>	Setting of EQ IC software	Factory use only
F31	VCATH	0~ <u>56</u> ~127	Setting of EQ IC software	Factory use only
F32	THEYE	0~ <u>110</u> ~255	Setting of EQ IC software	Factory use only
F33	THULK	0~ <u>94</u> ~255	Setting of EQ IC software	Factory use only
F34	ENVTH	0~ <u>16</u> ~255	Setting of EQ IC software	Factory use only
F35	ATFGL	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
F36	ATFGR	0~ <u>128</u> ~255	Setting of EQ IC software	Factory use only
F37	VCO FREQ	—	<b>SAVE or LOAD the VCO Center Frequency</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
F38	TAP	—	<b>SAVE or LOAD the TAP Coefficient</b> <Operation>: 1. Press the [ MARK IN ] button then the message "INIT" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	
F39	DEFAULT	—	<b>Factory default setting</b> <Operation>: 1. Press the [ MARK IN ] button then the message "LOAD" and "SAVE" are display on screen. 2. Select the item and press the [ MARK IN ] button so that the selected operation executed. 3. Return to menu.	N/A



**G00: RF 25M REC**

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
G01	REC CURR L1	0~ <u>200</u> ~255	Setting of Recording current value for RP L1ch head	
G02	REC CURR L2	0~ <u>200</u> ~255	Setting of Recording current value for RP L2ch head	
G03	REC FREQ L1	0~ <u>200</u> ~255	Setting of Recording frequency value for RP L1ch head	
G04	REC FREQ L2	0~ <u>200</u> ~255	Setting of Recording frequency value for RP L2ch head	
G05	REC CURR R1	0~ <u>200</u> ~255	Setting of Recording current value for RP R1ch head	
G06	REC CURR R2	0~ <u>200</u> ~255	Setting of Recording current value for RP R2ch head	
G07	REC FREQ R1	0~ <u>200</u> ~255	Setting of Recording frequency value for RP R1ch head	
G08	REC FREQ R2	0~ <u>200</u> ~255	Setting of Recording frequency value for RP R2ch head	



## H00: VIDEO

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
H01	CPS BLK DC	-128~ <u>0</u> ~127	Setting of DC level on composite output	
H02	Y+S BLK DC	-128~ <u>0</u> ~127	Setting of DC level on LCD Y signal	
H03	REC PR BAL	-128~ <u>0</u> ~127	Setting of REC PR Balance	
H04	REC PB BAL	-128~ <u>0</u> ~127	Setting of REC PB Balance	
H05	REC PR BAL SUB	-128~ <u>0</u> ~127	Setting of REC PR SUB Balance	
H06	REC PB BAL SUB	-128~ <u>0</u> ~127	Setting of REC PB SUB Balance	
H07	Y CLAMP DC	-128~ <u>0</u> ~127	Setting of REC Y CLAMP Balance	
H08	CPS Y LEVEL	-128~ <u>0</u> ~127	Setting of REC Y LEVEL for composite signal	
H09	CPS C LEVEL	-128~ <u>0</u> ~127	Setting of REC C LEVEL for composite signal	
H10	AXIS	-128~ <u>0</u> ~127	Setting of recording CHROMA PHASE	
H11	Y CLAMP SUB	-128~ <u>0</u> ~127	Setting of recording Y CLAMP DC level	
H12	V SETUP	OFF <b>ON</b>	Select the display VIN SETUP and VOUT SETUP on the SETUP MENU.	NOT USED
H13	N VIDEO LEV	-128~ <u>0</u> ~127	Setting of VIDEO LEVEL (NTSC) <Auto setting of Encoder VR> After select this item H13, the center value of item H13 to H22, are adjusted automatically by pressing [ VTR1/2 ] and [ ENTER ] button simultaneously. <b>NOTE:</b> Please set to center position of each Encoder VR(VIDEO LEVEL, SET UP, HUE, CHROMA LEVEL), when this auto setting is performed.	Please Perform this setting, when the Encoder VR P.C.Board or each VR's are exchanged.
H14	N SETUP ADD	-128~ <u>0</u> ~127	Set the SET UP level on SET UP ADD condition (NTSC)	
H15	N SETUP CUT	-128~ <u>0</u> ~127	Set the SET UP level on SET UP CUT condition (NTSC)	
H16	N HUE	-128~ <u>0</u> ~127	Setting of CHOROMA PHASE (NTSC)	
H17	N C LEV	-128~ <u>0</u> ~127	Setting of CHOROMA level (NTSC)	
H18	P VIDEO LEV	-128~ <u>0</u> ~127	Setting of VIDEO level (PAL)	
H19	P SETUP ADD	-128~ <u>0</u> ~127	Set the SET UP level on SET UP ADD condition (PAL)	
H20	P SETUP CUT	-128~ <u>0</u> ~127	Set the SET UP level on SET UP CUT condition (PAL)	
H21	P HUE	-128~ <u>0</u> ~127	Setting of CHOROMA level (PAL)	
H22	P C LEV	-128~ <u>0</u> ~127	Setting of CHOROMA level (PAL)	



## I00: SYSTEM

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
I01	UNDERCUT ADJ	000~FFF	Adjust the UNDER CUT voltage of Batleey Memorize setting value, when press the [ VTR1/2 ] and [ - ] button.	
	INPUT V	<u>00.0V</u> ~99.9V		
I02	S PHOTO	0.0V~3.3V	Display the S PHOTO SENSOR voltage. Move to measurement mode by pressing [ VTR1/2 ] button. End of measurement mode by pressing [ C ] button.	
	T PHOTO	0.0V~3.3V	Display the T PHOTO SENSOR voltage. Move to measurement mode by pressing [ VTR1/2 ] button. End of measurement mode by pressing [ C ] button.	
I03	REC DATA BAL	<b><u>NORMAL</u></b> 50CW 50CW/4 25CW 25CW/4	Select the RF RECORDING FREQUENCY. This setting value is effective on only service mode.	
I04	TRACKING MOD	<b><u>ATF</u></b> CTL50P CTL50R CTL25P CTL25R ATF50P ATF50R ATF25P ATF25R	Select the Tracking mode (ATF or CTL) Force play back with setting servo by setting format.	
I05	TRACKING VAL	-128~ <u>0</u> ~127	Tracking value is set in case CTL tracking mode.	
I06	MID M CAS	—	Set the mechanism to M cassette mode. <Operation> 1. Move to M Cassette mode by pressing [ VTR1/2 ] button. 2. Move to EJECT mode by pressing [ ENTER ] button. 3. Move to EJECT mode as above in case the cursor is escaped from this item,.	
I07	REF LEVEL	<b><u>FS-20</u></b> FS-18 FS-12	Select the position of Reference Level Marker on AUDIO LEVEL METER at FINE mode. FS-20:NTSC、FS-18:PAL、FS-12:YLE	
I08	INT SG	<b><u>OFF</u></b> ON	Select the INTERNAL AUDIO Signal output for Audio adjustment.	
I09	AUDIO ADJ	—	Automatic adjustment for audio adjustment VR on the front panel.  Press [ VTR1/2 ] and [ ENTER ] button after select this item, then set the value of voltage at unity condition of below indicated VR's automatically. <ul style="list-style-type: none"> <li>• Audio recording level controls</li> <li>• V1 audio playback level controls/V2 INT audio recording level controls</li> <li>• SDI audio recording level controls</li> <li>• V2 audio playback level controls</li> </ul> <b>NOTE:</b> In above indicated VR's, please set to center position about rotary VR and set to 0 of slide VR before perform this auto adjustment.	Please Perform this adjustment, when the front panel or each VR's are exchanged.
I10	LCD DIM	-30~ <u>0</u> ~30	Adjustment of LCD BACK LIGHT	
I11	LCD COLOR	-30~ <u>0</u> ~30	Adjustment of LCD COLOR level	
I12	LCD HUE	-30~ <u>0</u> ~30	Adjustment of LCD COLOR phase	



No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
I13	LCD BRIGHT	-30~ <u>0</u> ~30	Adjustment of LCD BACK LIGHT (DARK)	
I14	N SCH	-128~ <u>0</u> ~127	Setting of SCH (NTSC)	
I15	N SYS SC	-128~ <u>0</u> ~127	Setting of SYS SC PHASE (NTSC)	
I16	N H PHASE	-128~ <u>0</u> ~127	Setting of H PHASE (NTSC)	
I17	N VIDEO POS	-128~ <u>0</u> ~127	Setting of VIDEO POSITION (NTSC)	
I18	P SCH	-128~ <u>0</u> ~127	Setting of SCH (PAL)	
I19	P SYS SC	-128~ <u>0</u> ~127	Setting of SYS SC PHASE (PAL)	
I20	P H PHASE	-128~ <u>0</u> ~127	Setting of H PHASE (PAL)	
I21	P VIDEO POS	-128~ <u>0</u> ~127	Setting of VIDEO POSITION (PAL)	
I22	RF AUTO ADJ	OFF REMOTE <u>ALL</u> 50ALL 25ALL 50PB 50RP 50REC 25PB 25RP 25REC	Set the RF AUTO adjustment	
I23	RF ADJ MODE	0~255	Set the RF AUTO adjustment mode	
I24	PB SLIDE VR	<u>VAL</u> ~UNI		
I25	DIAG DISP	—	Monitoring the information of VTR operation, history and EQ 100 setting. After select this item and press [ MARK IN ] button so that the following indicated items are displayed.	

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
I25	DIAG PAGE 1	—	Press [ MARK IN ] button so that the current condition of VTR operation is displayed by character code. The auto off information of VTR operation can be displayed, by pressing [ 1 ], [ 2 ] and [ 3 ] button further. Press [ 0 ] button so that the display return to present condition.	
I25	DIAG PAGE 2	—	Press [ MARK IN ] button so that the current condition of VTR operation is displayed by character code. The auto off information of VTR operation can be displayed, by pressing [ 1 ], [ 2 ] and [ 3 ] button further. Press [ 0 ] button so that the display return to present condition.	
I25	DIAG PAGE 3	—	Press [ MARK IN ] button so that the current condition of VTR operation is displayed by character code. Only current condition is displayed.	
I25	EQ100 50M	—	Monitoring the setting value of VCO and TAP on EQ. Press [ MARK IN ] button so that the setting value is displayed by character code.	Factory use only
I25	EQ100 25M	—	Monitoring the setting value of VCO and TAP on EQ. Press [ MARK IN ] button so that the setting value is displayed by character code.	Factory use only



## < DIAG PAGE OPERATION >

1. The current and previous condition of VTR operation can be confirmed by DIAG DISP mode on service menu.
2. The current and previous 3 condition of VTR operation is displayed by character code as indicated below.

00	FF	0F	00	00	20	FF	00
00	00	00	00	00	00	00	00
01	11	FF	FF	FF	FF	01	00
00	00	00	00	00	00	00	00
00	00	08	0C	00	00	00	00
08	00	41	00	00	DA	00	00
FF	00	00	00	01	01	01	00
00	00	00	00	FF	00	05	00
00	00	DA	00	00	00	DA	00
05	00	00	00	AA	AA	AB	07
BA	FF	FF	FF	BA	00	00	00

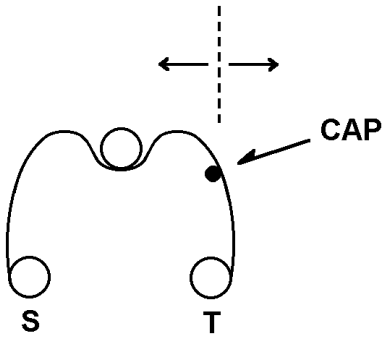
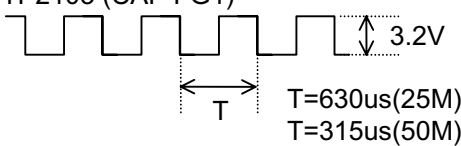
3. Purpose of DIAG PAGE 1,2 and 3 are described below.

DIAG PAGE 1	Current and previous 3 condition displayed to confirm SERVO process
DIAG PAGE 2	Current and previous 3 condition displayed to confirm SYSCON process
DIAG PAGE 3	Only current condition displayed



4. Use this DIAG PAGE function for analysis of AUTO OFF problem.



## 13. AUTO OFF CHECK POINT TABLE

ERROR CODE & MESSAGE	CHECK POINT	
<b>WINDUP_REEL_NOT_ROTATE</b> <b>E-52</b>	<p>Check the tape slack position before power on.</p> <ul style="list-style-type: none"> <li>● S Reel side from capstan motor → S Reel side is problem at REV mode.</li> <li>● T Reel side from capstan motor → T Reel side is problem at FWD mode</li> </ul> 	<ol style="list-style-type: none"> <li>1. Check if Reel motor has dead point in the Reel Torque Offset Adjustment mode. [In case found dead point] <ul style="list-style-type: none"> <li>● Check loosen connector SERVO DRIVE board, MAIN CONTROL board</li> <li>● Check Servo Drive board Motor Drive circuit TH1,2,3±, SH1,2,3± --- Fig. 1 on page INF55 TM1,2,3, SM1,2,3 --- Fig. 2 on page INF55</li> <li>● Check Reel Motor and Replace Reel Motor</li> </ul> </li> <li>2. Check Reel Brake Solenoid (Check if the Reel Brake is smoothly released when the Reel Torque Offset Adjustment mode is executed.) [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector SERVO DRIVE board, MAIN CONTROL board</li> <li>● Check Servo Drive board Solenoid Drive circuit S_BRAKE_N, T_BRAKE_N --- Fig. 3 on page INF55.</li> </ul> </li> <li>3. Check the tape pass if grease or dust is attached.</li> </ol>
<b>WINDUP_ERROR</b> <b>E-53</b>	<p>TP2103 (CAP FG1)</p>  <p>SERVO DRIVE Board</p> <ul style="list-style-type: none"> <li>● SRL FG1 (TP2402)</li> <li>● SRL FG2 (TP2403)</li> <li>● TRL FG1 (TP2404)</li> <li>● TRL FG2 (TP2505)</li> </ul>	<ol style="list-style-type: none"> <li>1. Check the tension. <ul style="list-style-type: none"> <li>● Check Spring pressure --- Refer to the specification of Tension Regulator Spring Adjustment</li> <li>● Check Tension Voltage --- Tension sensor</li> </ul> </li> <li>2. Check the FG waveform. Capstan FG --- Check Capstan FG Reel FG --- Check Reel FG</li> <li>3. Check Reel Offset Torque --- Refer to Motor Torque Offset Adjustment.</li> <li>4. Check Tape Pass Load</li> <li>5. Check Tape Damage</li> </ol>



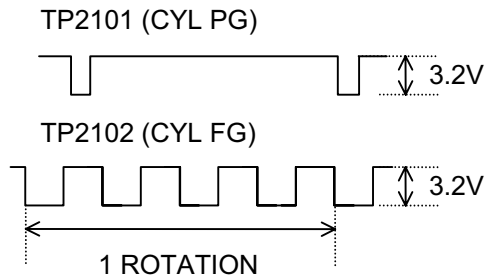
<p><b>S_FF/REW_TIME OVER</b></p> <p><b>E-57</b></p>	<p>Check where the problem occurred at tape beginning, tape end or other portion.</p>  <p>Servo Drive board</p> <ul style="list-style-type: none"> <li>● SRL FG1 (TP2402)</li> <li>● SRL FG2 (TP2403)</li> <li>● TRL FG1 (TP2404)</li> <li>● TRL FG2 (TP2505)</li> </ul>	<ol style="list-style-type: none"> <li>1. Check Reel FG [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector Servo Drive board, Main Control Board</li> <li>● Reel FG Sensor, Reel Replacement</li> </ul> </li> <li>2. Check transparent tape detection. [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector Servo Drive board, Main Control Board</li> <li>● Replace sensors.</li> </ul> </li> <li>3. Check the tape is not folded.</li> </ol>
<p><b>UNLOAD_ERROR</b></p> <p><b>E-55</b></p>	<p>Check if actually the tape is wound or not.</p>  <p>SERVO DRIVE Board</p> <ul style="list-style-type: none"> <li>● SRL FG1 (TP2402)</li> <li>● SRL FG2 (TP2403)</li> <li>● TRL FG1 (TP2404)</li> <li>● TRL FG2 (TP2505)</li> </ul>	<ol style="list-style-type: none"> <li>1. Check if Reel motor has dead point in the Reel Torque Offset Adjustment mode. [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector Servo Drive board, Main Control board</li> <li>● Check Servo Drive board Motor Drive circuit TH1,2,3±, SH1,2,3± --- Fig. 1 on page INF55 TM1,2,3, SM1,2,3 --- Fig. 2 on page INF55</li> <li>● Check Reel Motor Replace Reel Motor.</li> </ul> </li> <li>2. Check Reel Torque Offset [ In case of abnormal condition] Re-adjust Motor Torque Offset</li> <li>3. Check Reel Brake Solenoid (Check if the Reel Brake is smoothly released when the Reel Torque Offset Adjustment mode is executed.) [In case found problem] <ul style="list-style-type: none"> <li>● Check loosen connector Servo Drive board, Main Control board</li> <li>● Check Servo Drive board Solenoid Drive circuit S_BRAKE_N, T_BRAKE_N --- Fig. 3 on page INF55</li> </ul> </li> <li>4. Check Reel FG</li> </ol>



**DRUM\_ROTATE  
\_TOO\_SLOW**

**E-59**

Check if the tape is stuck to the Cylinder.  
Check if the tape is stuck to some part of the tape pass then it causes the high tension. In this case tape may stop the Cylinder rotation.



Check Cylinder PG at TP2101

Check Cylinder FG at TP2102

[In case of FG is correct and PG is incorrect]  
PG signal flow is incorrect. (Cylinder >> Servo Drive >> Main Control)

[In case of both PG and FG are incorrect  
(Cylinder rotation is actually slow.)]

(1) Check Cylinder Unit.

Check that the Cylinder smoothly rotate in EJECT or UNLOAD condition. If it is not smooth, the Cylinder unit is defective.

(2) Check the rotary speed detection.

Check that the CYL\_FG\_ (TP2102) shows the pulse which is 4 pulses per rotation and the duty is 50 %, 0V/3.2V.

If it is incorrect, FG signal flow is incorrect.

(3) Check the Servo CPU outputs rotation acceleration command.

- Check that acceleration voltage (less than 1.6 V) is output at CYL\_ERR (TP3201).

- Check that drive on signal is 3.2 V at TP2301. When it is 1.6 V, it is OFF mode.

(4) Check the Reference voltage.

Check that V REF (IC2301-26 pin) voltage is about 1.6 V.

→ If (3) or (4) is incorrect, of SERVO CPU circuit on Main Control board is problem.

(5) Check Power Supply voltage.

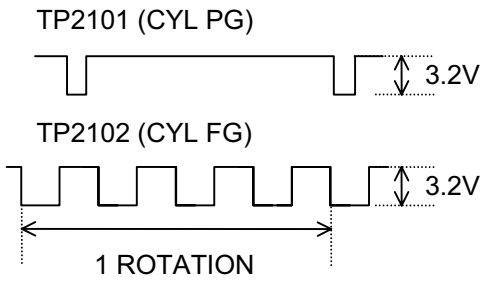
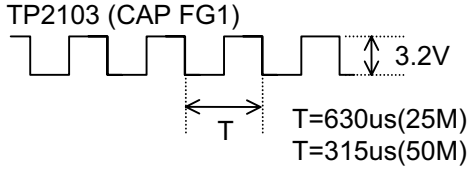
Check Drive IC voltage (VCC 5V : IC2301-27 pin) and Motor Drive voltage CYL\_VM (IC2301-12 pin).

The VM is positive voltage during Cylinder ON.

→ If it is correct, somewhere between Motor Drive and Cylinder problem.

Check connectors of Cylinder and Servo board.



<p><b>DRUM_ROTAT E_TOO_FAST</b></p> <p><b>E-60</b></p>	 <p>TP2101 (CYL PG)</p> <p>TP2102 (CYL FG)</p> <p>1 ROTATION</p> <p>3.2V</p>	<p>Check Cylinder PG at TP2101</p> <p>Check Cylinder FG at TP2102</p> <p>[In case of fast rotation]</p> <ul style="list-style-type: none"> <li>● Check Cylinder flexible cable and connectors.</li> <li>● Check CYL_ERR (TP3201) voltage.</li> </ul> <p>Normal Rotation : TP3201 = about 1.6 V</p> <p>During Full Acceleration : TP3201 = 0 V</p> <p>EJECT mode : TP3201 = 3.2 V</p> <p>V REF (IC2301-26 pin) = about 1.6 V fix</p> <p>If above voltage is incorrect, servo board is problem.</p> <p>[In case FG is correct and PG is incorrect]</p> <p>PG signal flow is incorrect. (Cylinder &gt;&gt; Servo Drive board&gt;&gt; Main Control board)</p>
<p><b>CAP_ROTATE_ TOO_FAST</b></p>	 <p>TP2103 (CAP FG1)</p> <p>3.2V</p> <p>T</p> <p>T=630us(25M)</p> <p>T=315us(50M)</p>	<p>Check Capstan FG at TP2103.</p> <ul style="list-style-type: none"> <li>● Check acceleration command.</li> </ul> <p>Confirm the V REF (IC2302 – 26 pin) is about 1.6 V.</p> <p>Confirm the CAP_ERR (TP3202) voltage is about 1.0 V at STOP condition.</p> <p>→If it is incorrect, command signal flow is problem.</p> <ul style="list-style-type: none"> <li>● Check the FG signal does not have noise.</li> </ul> <p>Check CAP_FG1,2 (TP2103, 2104) frequency is correspond with rotary speed. ( about 1.58 kHz in REC/PB mode:25M), ( about 3.16 kHz in REC/PB mode:50M)</p> <p>If it is incorrect, FG signal flow is problem.</p>

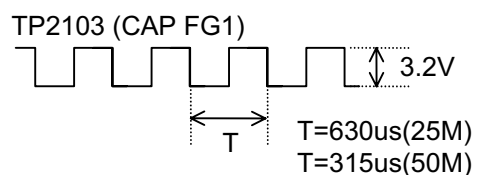


CAP\_ROTATE\_  
TOO\_SLOW

E-61

Check if the tape is stuck to the tape pass  
then tension is high.

Check the mechanical load of Capstan.



Check Capstan FG at TP2103.

- In case the Capstan Motor overrunning even the message is too slow.

The FG signal to detect capstan speed is not supplied to the SERVO CPU. Check the frequency at CAP\_FG1,2 (TP2103, 2104) is correspond with the rotary speed. (about 1.58 kHz, 0/3.2 V in REC/PB mode:25M). (about 3.16 kHz, 0/3.2 V in REC/PB mode:50M).

Check the connectors of between Capstan and Servo.

- In case Capstan does not rotate.
- (1) Check the Servo CPU supplies the acceleration command.

Check the V REF (IC2302 – 26 pin) is about 1.6V.

Check the CAP\_ERR (TP3202) is acceleration command. It is below than V REF voltage. If the capstan does not rotate, the CAP\_ERR voltage should be 0 V.

Check Drive ON signal (TP3203) is 3.2V (rev) and 0V (fwd), 1.6 V (OFF).

- (2) Check the Power Supply voltage.  
Check the Drive IC power voltage (VCC 5V :  
IC2302 – 27 pin).

Check Motor Drive voltage CAP\_VM (IC2302 – 12 pin).

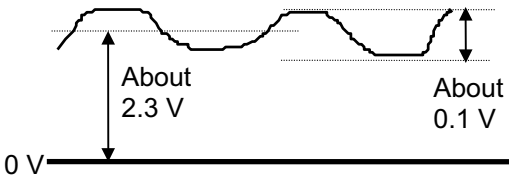
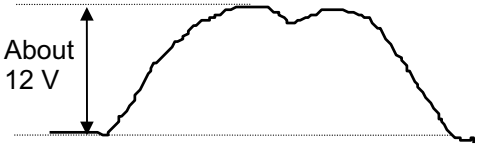
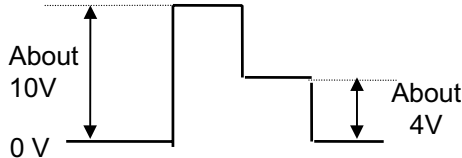
- (3) Check the Drive signal is supplied to Capstan motor.

Check the connectors of Capstan and Servo.  
If above conditions are correct, motor or drive circuit is problem.



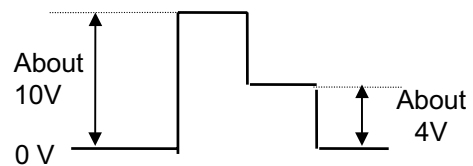
<p><b>S_REEL_ROT _TOO_FAST</b></p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">E-64</div>		<p>1. Check Reel FG waveform. Check the following signals input to SERVO CPU on Main Control board.</p> <ul style="list-style-type: none"> <li>● S-Reel-FG (IP21102-154 pin)</li> <li>● T-Reel-FG (IP21102-153 pin)</li> <li>● S-Reel-FWD-L (IP21102-191 pin)</li> <li>● T-Reel-FWD-L (IP21102-190 pin)</li> </ul> <p>[In case found problem]</p> <ul style="list-style-type: none"> <li>● Check loosen connector</li> </ul> <p>Servo Drive board, Main Control board</p> <ul style="list-style-type: none"> <li>● Reel FG Sensor and Reel Replacement</li> </ul> <p>2. Check Reel Drive circuit. TP2503 (S REEL ERR) and TP2504 (T REEL ERR) on SERVO board --- less than 0.5 V</p>
<p><b>T_REEL_ROT _TOO_FAST</b></p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">E-67</div>		<p>1. Check Reel FG waveform. Check the following signals input to SERVO CPU on Main Control board.</p> <ul style="list-style-type: none"> <li>● S-Reel-FG (IP21102-154 pin)</li> <li>● T-Reel-FG (IP21102-153 pin)</li> <li>● S-Reel-FWD-L (IP21102-191 pin)</li> <li>● T-Reel-FWD-L (IP21102-190 pin)</li> </ul> <p>[In case found problem]</p> <ul style="list-style-type: none"> <li>● Check loosen of connector</li> </ul> <p>Servo Drive board, Main Control board</p> <ul style="list-style-type: none"> <li>● Reel FG Sensor and Reel Replacement</li> </ul> <p>2. Check Reel Drive circuit. TP2503 (S REEL ERR) and TP2504 (T REEL ERR) on SERVO board --- less than 0.5 V</p>



<p><b>Fig. 1</b> <b>REEL Position Detect</b></p>	 <p>0 V</p> <p>About 2.3 V</p> <p>About 0.1 V</p>	<p>Rotate the REEL motor in EJECT mode and check the following waveform. (SERVO Drive board)</p> <p>P3135 - 16 TH1+ 14 TH1- 12 TH2+ 10 TH2- 8 TH3+ 6 TH3-</p> <hr/> <p>P3134 - 16 SH1+ 14 SH1- 12 SH2- 10 SH3+ 8 SH3+ 6 SH3-</p>
<p><b>Fig. 2</b> <b>REEL Drive Waveform</b></p>	 <p>About 12 V</p>	<p>Select T or S_REEL_TRQ on the MENU, and rotate the REEL and confirm the following waveform is like Fig. 2. (SERVO Drive board)</p> <p>P3135 - 13 TM3 17 TM2 9 TM1</p> <hr/> <p>P3134 - 13 SM3 17 SM2 9 SM1</p>
<p><b>Fig. 3</b> <b>Brake Solenoid</b></p>	 <p>About 10V</p> <p>0 V</p> <p>About 4V</p>	<p>Select T or S_REEL_TRQ on the MENU, and check the waveform appears at following positions when Brake is released like Fig. 3.</p> <ul style="list-style-type: none"> <li>● T_REEL_TRQ selection Servo Drive board P3118 -2 T_BRAKE_N</li> <li>● S_REEL_TRQ selection Servo Drive board P3115 -2 S_BRAKE_N</li> </ul>



**Fig. 3**  
**Brake Solenoid**

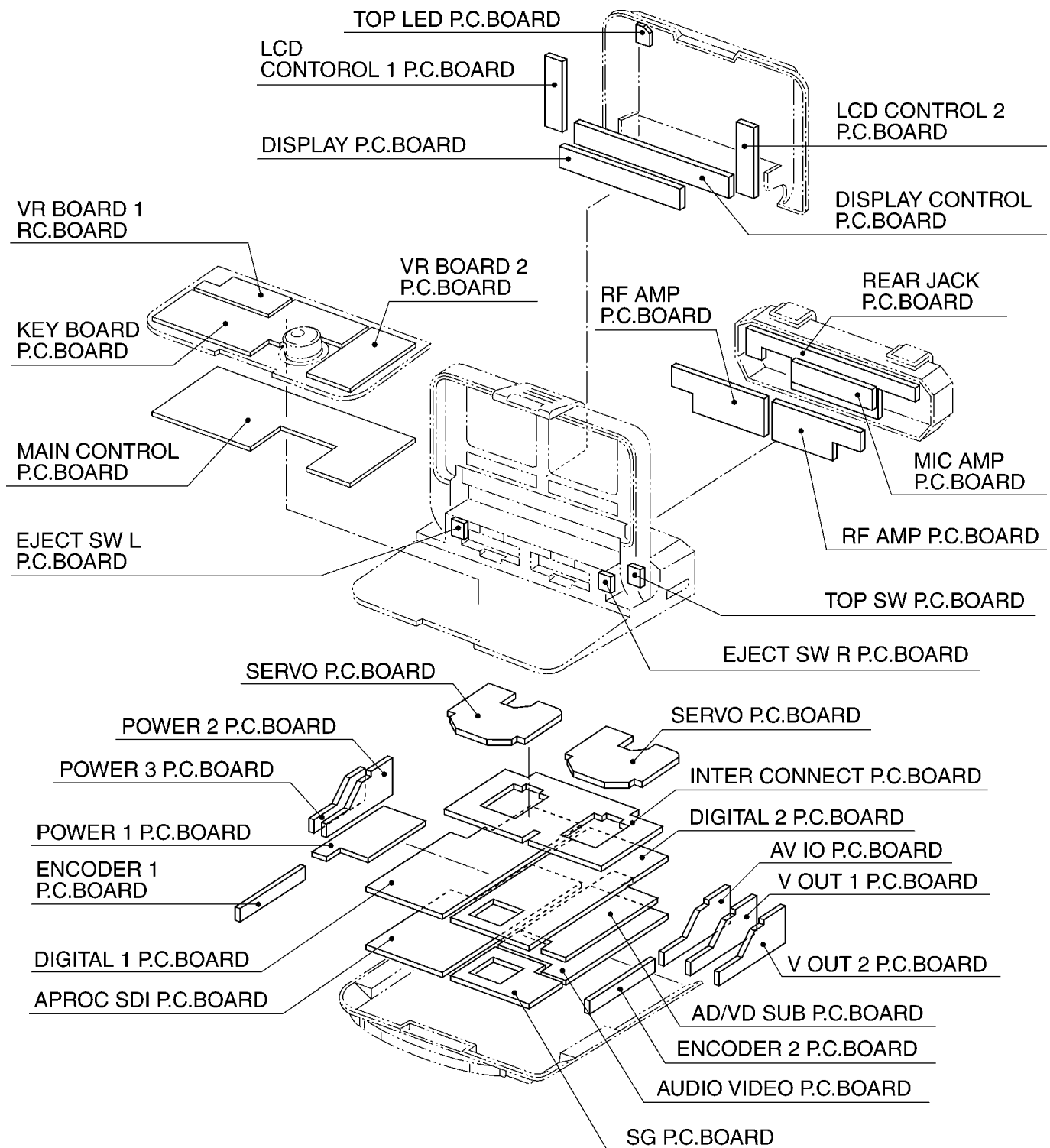


Select T or S\_REEL\_TRQ on the MENU, and check the waveform appears at following positions when Brake is released like Fig. 3.

- T\_REEL\_TRQ selection  
Servo Drive board P3118 -2 T\_BRAKE\_N
- S\_REEL\_TRQ selection  
Servo Drive board P3115 -2 S\_BRAKE\_N



# 14. Boards Location





## 1. Removal of Top Case Unit

1. Pull the Lever and release the lock as shown in Figure 1.

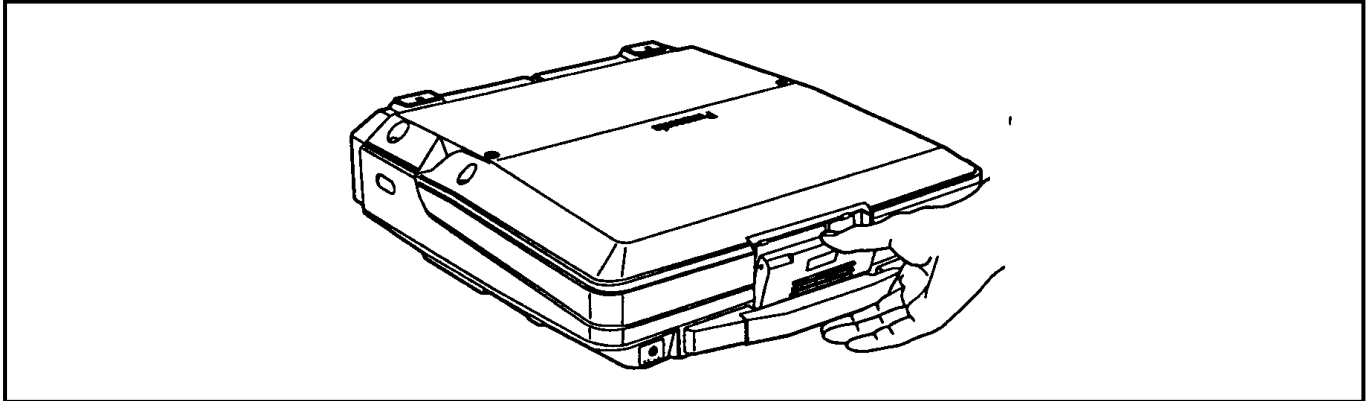


Figure 1

2. Loosen the 4 screws (A) as shown in Figure 2 and remove the Top Case Unit.

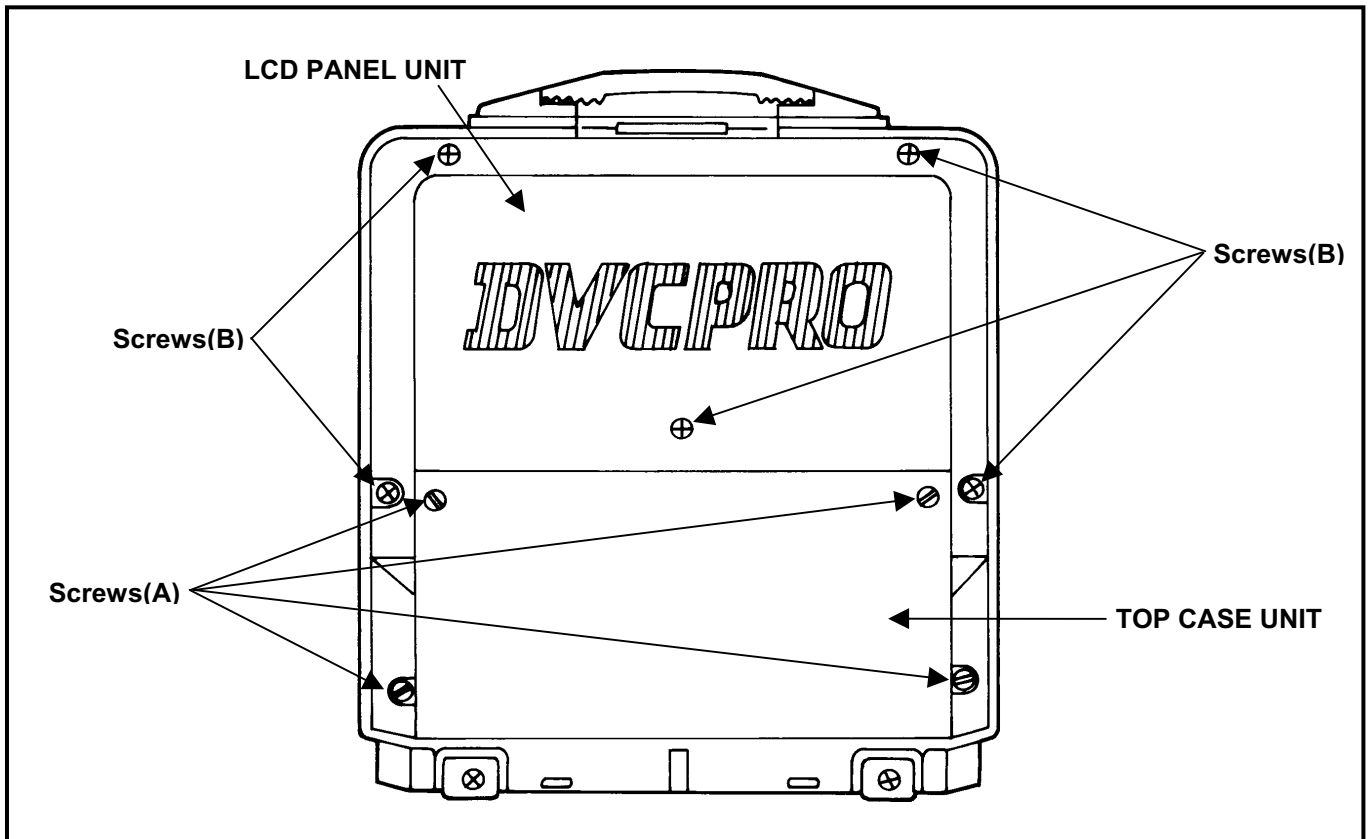


Figure 2

## 2. Removal of LCD Panel Unit

1. Unscrew the 5 screws (B) as shown in Figure 2 and remove the LCD Panel Unit.



### 3. Removal of Bottom Case Unit

1. Unscrew the 7 screws as shown in Figure 3 and remove the Bottom Case Unit.

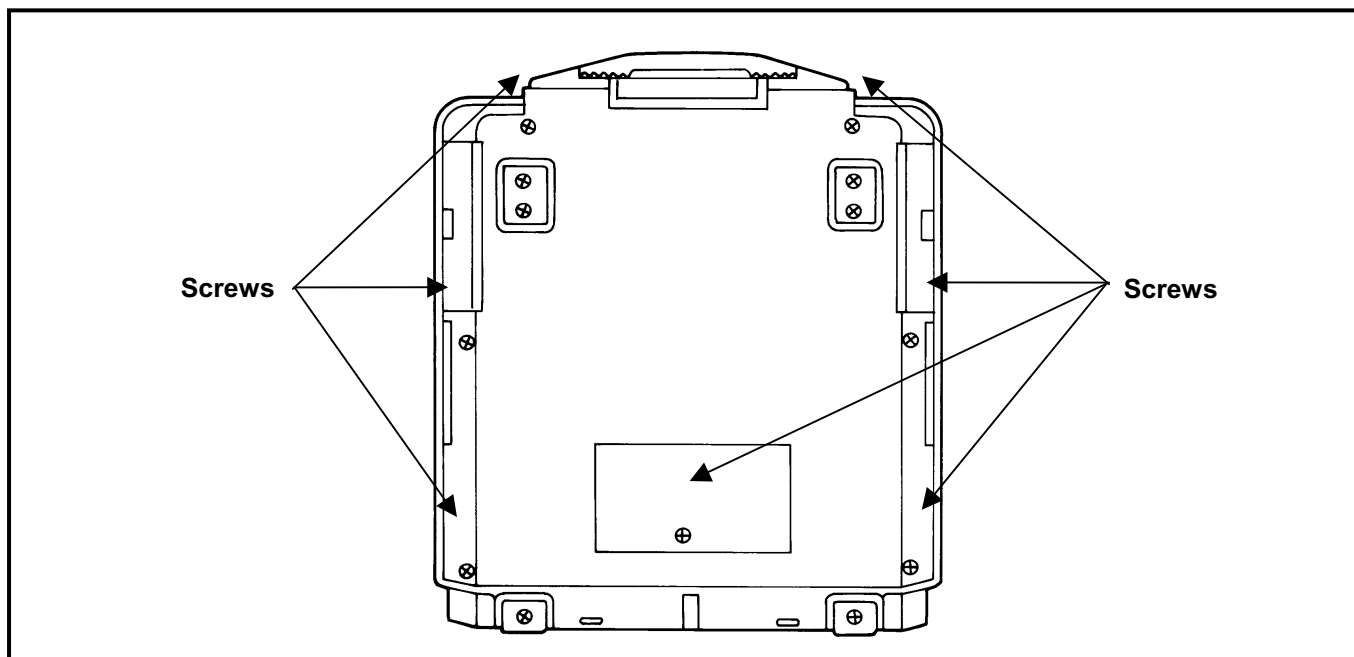


Figure 3

### 4. Open the P.C.Board Unit

**Note:** P.C.Board Unit is consist of Digital 1, 2, APROC & SDI, POWER 1,2,3, AUDIO VIDEO, SG, AD/VD SUB, ENCODER 1, 2 P.C.Board (P.C.Board Unit is not a unit of parts supply).

1. Unscrew the 5 screws as shown in Figure 4 and open the P.C.Board Unit.

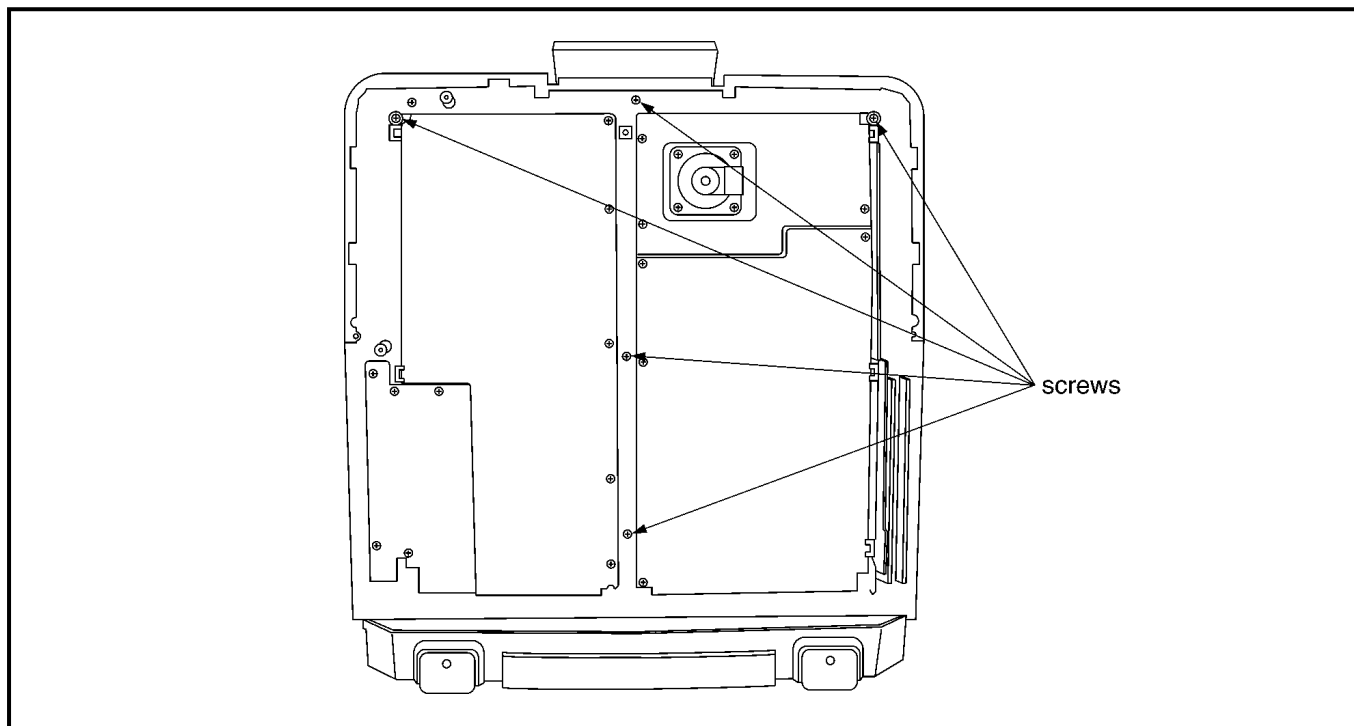


Figure 4



## 5. Removal of Key Panel Unit

1. Remove the Bottom Case Unit.
2. Open the P.C.Board Unit.
3. Disconnect the connector (A):P60003, (B):P21801, (C):P60004, (D):P60005, (E):P60002, (F):P21401, (G):P60001, (H):P65509, (I):P65508 on the MAIN CONTROL P.C.Board as shown in Figure 5.
4. Unscrew the 5 screws (J) as shown in Figure 5 and Remove the Key Panel Unit.

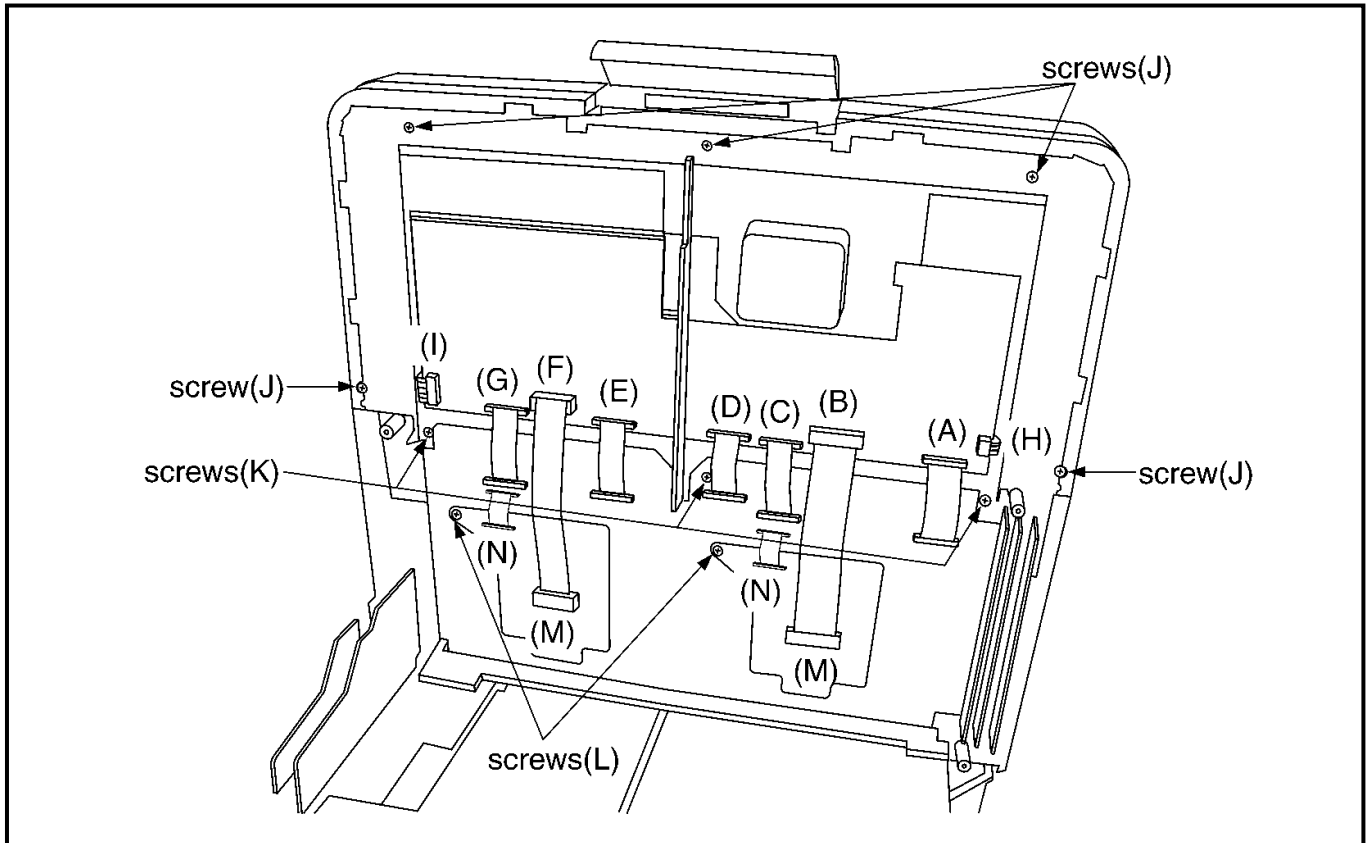


Figure 5



## 6. Removal of Front Panel

1. Remove the Top Case Unit.
2. Remove the Bottom Case Unit.
3. Open the P.C.Board Unit.
4. Remove the Key Panel Unit.
5. Unscrew the 3 screws (K) as shown in Figure 5.
6. Unscrew the 2 screws at left and right side, then remove the Front Panel as shown in Figure 6.

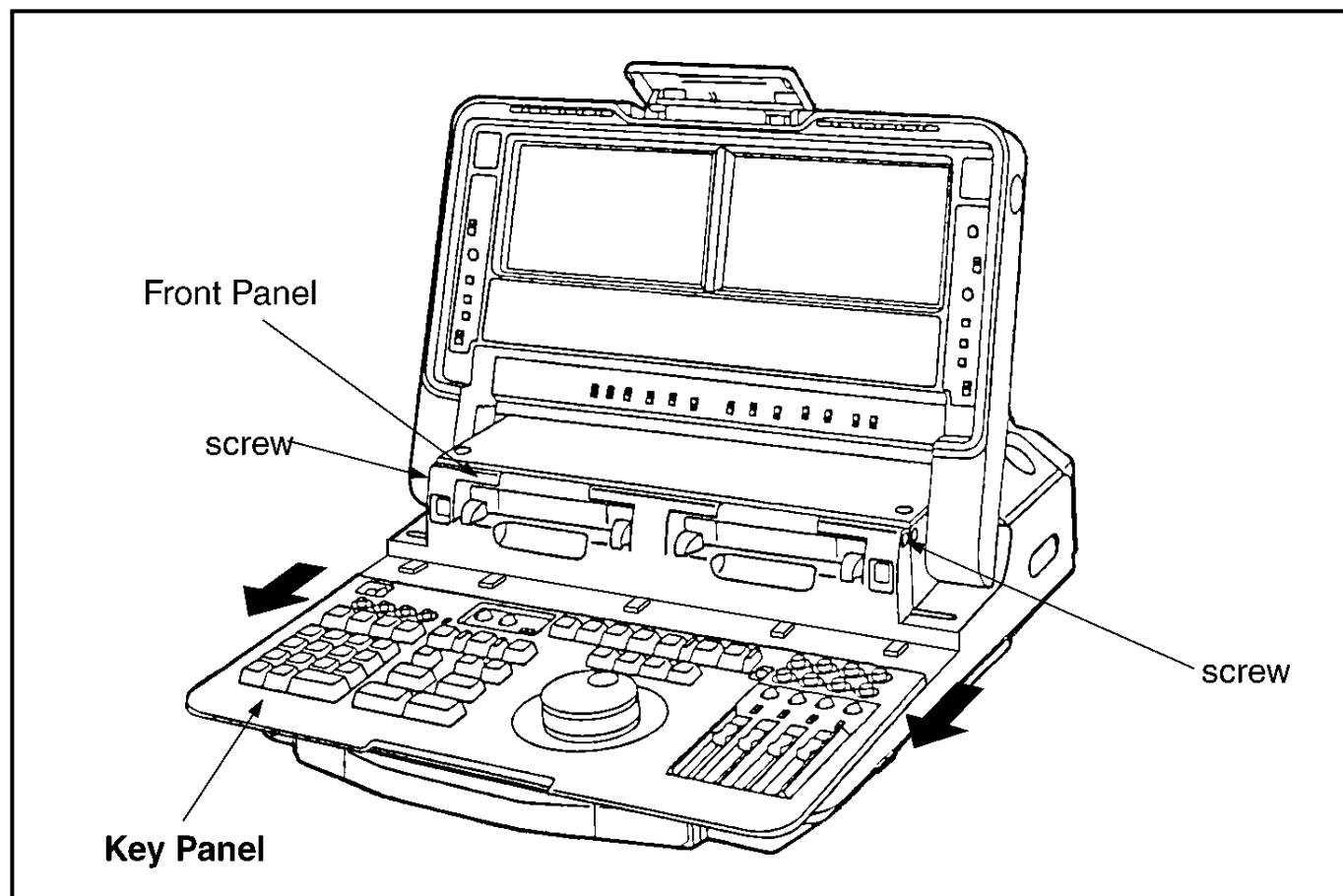


Figure 6



## 7. Removal of Front Loading Unit

1. Remove the LCD Panel Unit.
2. Disconnect the 2 connectors of Front Loading motor and mechanism interconnection as shown in Figure 7.
3. Disconnect the connector P52004 or P52006 from A/C Head cable as shown in Figure 7.
4. Rotate the red screw at the side of Front Loading Unit clockwise by a screw-driver pushing the screw to move the Cassette Holder until the 2 screws (A) can be seen.
5. Unscrew the 4 screws (A), (B) which are fixing Front Loading Unit and remove the Front Loading Unit.

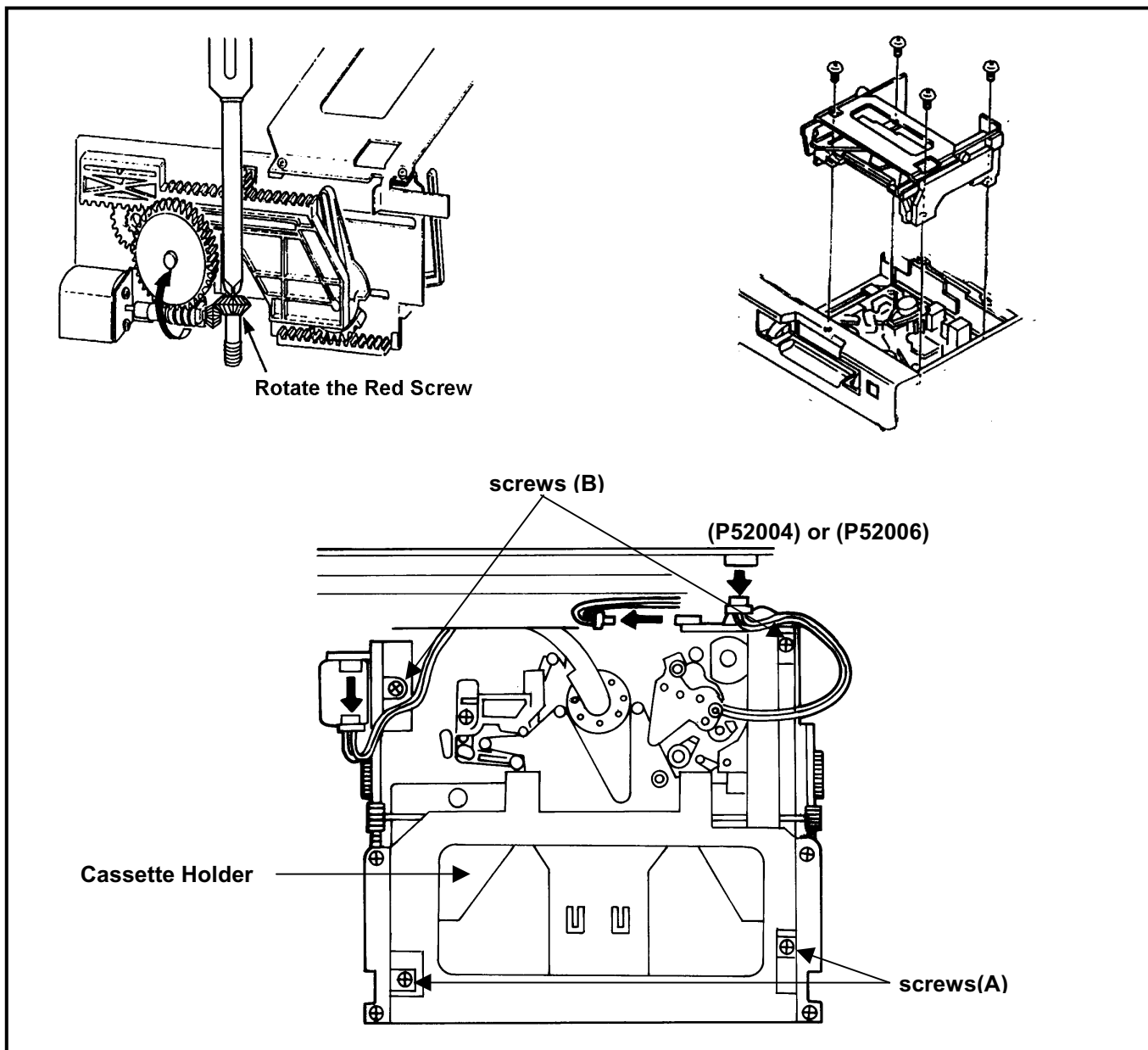


Figure 7



## 8. Removal of Mech Chassis Unit

1. Remove the Top Case Unit.
2. Remove the Bottom Case Unit.
3. Remove the Front Loading Unit.
4. Open the P.C.Board Unit.
5. Unscrew the screw (L) on the INTER CONNECT P.C.Board as shown in Figure 5 and remove the plastic plate.
6. Disconnect the connector (M):P22902, (N):P22901 on the SERVO P.C.Board as shown in Figure 5.
7. Disconnect the connector P52004, P52006, P52002, P52003 on the RF AMP 2 P.C.Board and the connector P51002, P51003 on the RF AMP 1 P.C.Board.
8. Unscrew the 3 screws as shown in Figure 8 and remove the Mech Chassis Unit.

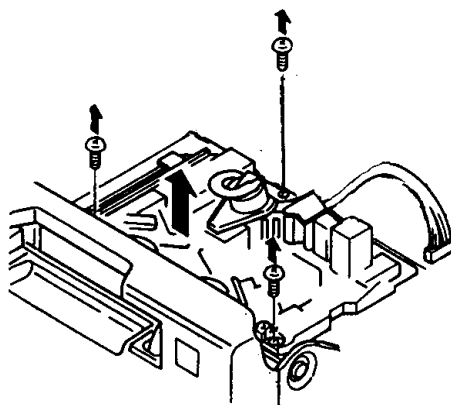


Figure 8

## 9. Removal of LCD Unit

1. Remove the Top Case Unit.
2. Disconnect the connector B1, B2 on the LCD P.C.Board as shown in Figure 9.
3. Unscrew the screw fixing the LCD Fixed Plate as shown in Figure 9 and remove the LCD Unit.

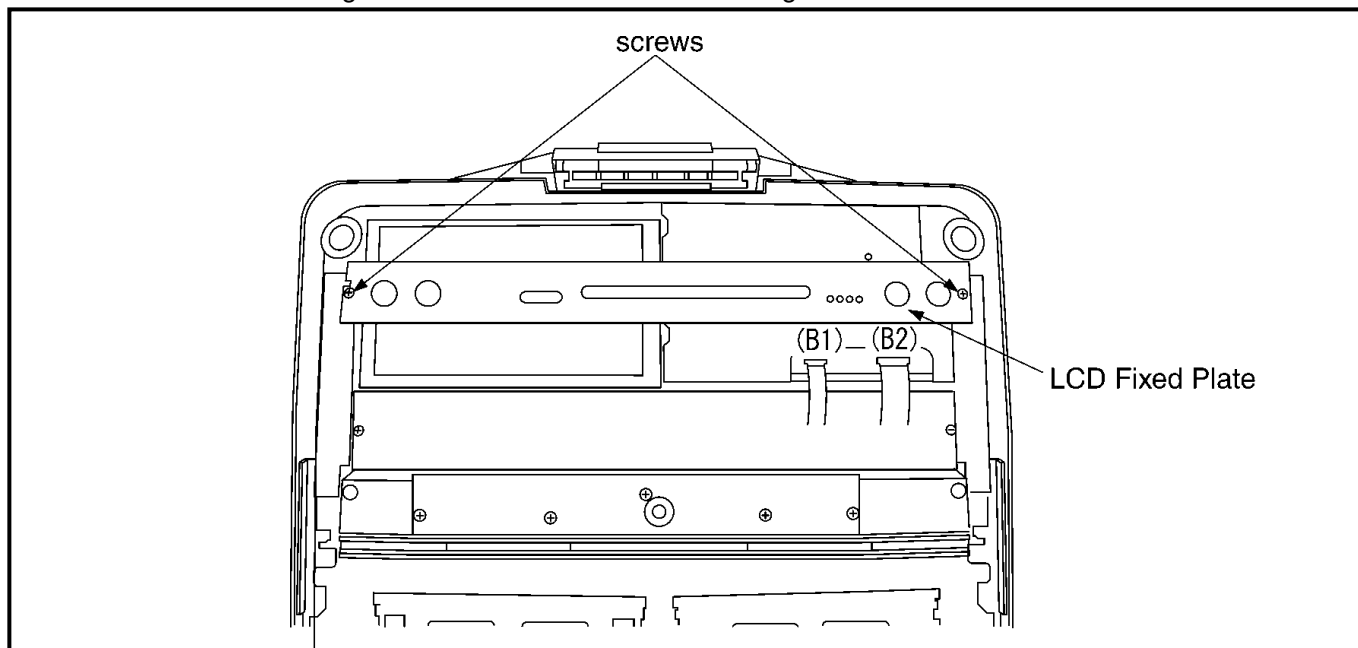


Figure 9



## 10. Removal of Rear Panel Unit

1. Unscrew the 4 screws (A) as shown in Figure 10.
2. Disconnect the connector P4004, P4006, P4005, P4007, P4010 and P4008 on the Rear Jack P.C.Board as shown in Figure 11.
3. Disconnect the connector P1001 on the POWER 2 P.C.Board.
4. Unplug the plug J3301, J3302, J3201 on the APROC & SDI P.C.Board and remove the Rear Panel Unit..



Figure 10

## 11. Removal of Fan Motor

1. Remove the Rear Panel Unit.
2. Unscrew the 6 screws (A) and remove the Fan Motor Fixed Plate.
3. Disconnect the connector P4008 and P4009 on the MIC AMP P.C.Board as shown in Figure 11 and remove the Fan Motor.

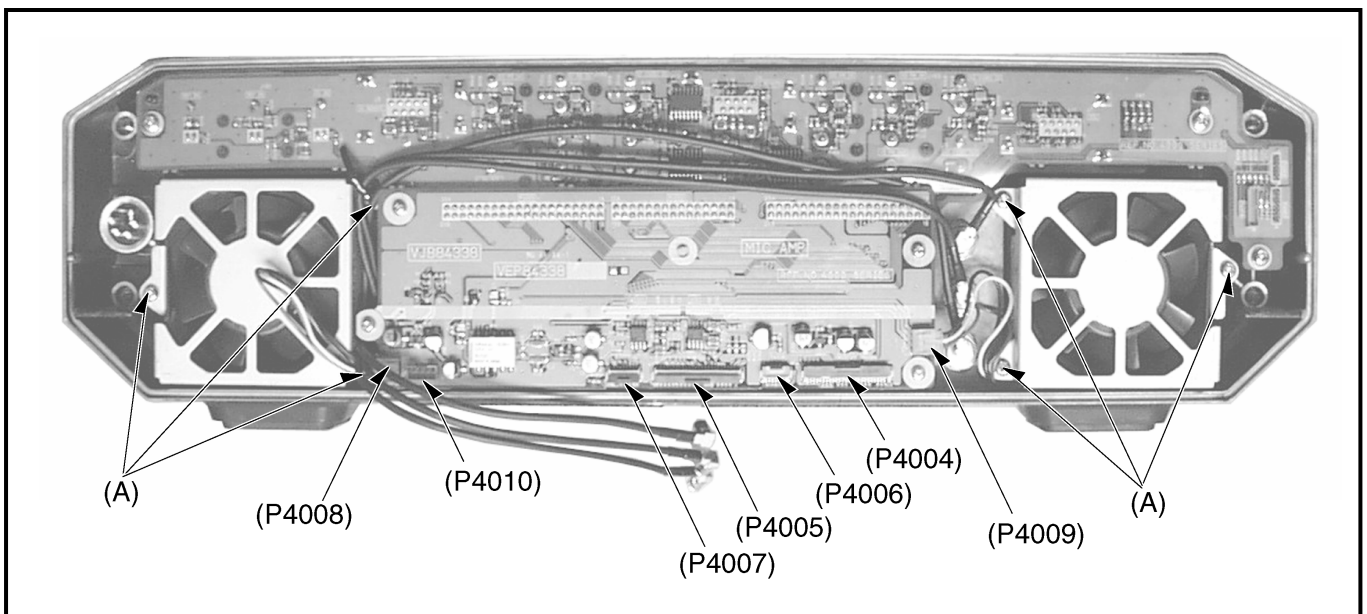


Figure 11



# 1. POWER

## 1-1. OSC Frequency Adjustment 1

<b>Board</b>	POWER 2
<b>Spec</b>	204kHz +/- 4kHz
<b>TP</b>	TP1101, TG1001 (GND)
<b>Adjust</b>	VR1101
<b>M.EQ</b>	Frequency Counter

1. Connect a frequency counter to TP1101 and TG1001, Adjust VR1101 so that the frequency is within the specification.

## 1-2. Power Voltage Confirmation 1

<b>Board</b>	POWER 1
<b>Spec</b>	As shown below
<b>TP</b>	As shown below
<b>M.EQ</b>	D.V.M

1. Confirm voltages as following chart.
2. If either one of them is out of specification. Implement the "1-1. OSC frequency Adjustment 1" again.

Item	Spec	TP
+3V output	+3.10V +/- 0.05V	TP1301
+3.3V output	+3.42V +/- 0.05V	TP1501
+5V output	+5.15V +/- 0.065V	TP1601
+5.6V_P1 output	+5.70V +/- 0.12V	TP1602
+5.6V_P2 output	+5.70V +/- 0.12V	TP1302
+9V output	+9.10V +/- 0.15V	TP1701
+12V output	+12.20V +/- 0.20V	TP1705
-5.6V_P1 output	-5.70V +/- 0.12V	TP1702
-5.6V_P2 output	-5.70V +/- 0.12V	TP1706
-9V output	-9.10V +/- 0.15V	TP1703
-12V output	-12.20V +/- 0.20V	TP1704

\*GND : TG1701

## 1-3. OSC Frequency Adjustment 2

<b>Board</b>	DISP CONT
<b>Spec</b>	102kHz +/- 2kHz
<b>TP</b>	TP68301, TP68304 (GND)
<b>Adjust</b>	VR68301
<b>M.EQ</b>	Frequency Counter

1. Connect a frequency counter to TP68301 and TP68304, Adjust VR68301 so that the frequency is within the specification.

## 1-4. Power Voltage Confirmation 2

<b>Board</b>	DISP CONT
<b>Spec</b>	As shown below
<b>TP</b>	TP68302, TP68305, TP68304 (GND)
<b>M.EQ</b>	D.V.M

1. Confirm voltages as following chart.
2. If either one of them is out of specification. Implement the "1-3. OSC frequency Adjustment 2" again.

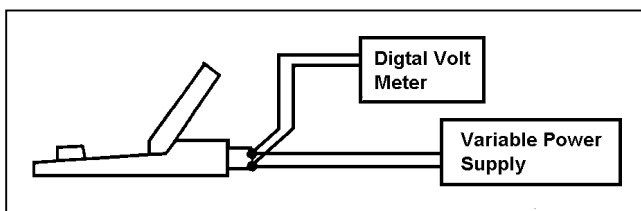
Item	Spec	TP
+9V output	+9.10V +/- 0.20V	TP68302
+9V output	+9.10V +/- 0.20V	TP68305

**NOTE:** Set "BACKLIGHT SW" to "LIGHT" position.

## 1-5. Adjustment for Battery Voltage Detection

<b>Board</b>	-----
<b>Spec</b>	+12.00V +/- 0.02V
<b>TP</b>	DC IN (VTR side, XLR Connector)
<b>Adjust</b>	I01 : UNDERCUT_ADJ (In the service menu on VTR1 side)
<b>Mode</b>	EJECT
<b>Tape</b>	-----
<b>M.EQ</b>	D.V.M

1. Connect a D.V.M to DC IN connector.
2. Adjust Variable power supply so that the voltage is +12.00V +/- 0.02V.
3. Open the SERVICE MENU on VTR1 side. And then select I00: SYSTEM ADJUST.
4. Press the "MARK IN button" to select I01: UNDERCUT\_ADJ.
5. Press the "VTR1 button" and "ENTER button" simultaneously.
6. Press the "MARK OUT button" to quit the service adjust.



**NOTE:** This adjustment should be done after "1-1. OSC Frequency adjustment" is completed.



## 2. SERVO

### 2-1. T Reel Torque Offset Adjustment

VTR	VTR1	VTR2
Board	ENCODER VR1	ENCODER VR2
Spec	0V +/- 5mV	
TP	TP4 (T_ERR) TP6 (SPA) TP1 (TMG)	TP4 (T_ERR) TP6 (SPA) TP1 (TMG)
Adjust	A01 : T_OFFSET	
Input	-----	
Mode	EJECT	
Tape	-----	
M.EQ	D.V.M	

1. Open the service menu A00 : SERVO ADJUST.
2. Connect D.V.M to TP4 AND TP1. Adjust A01 : T\_OFFSET on the service menu to be within the specification.
3. Connect a D.V.M to TP6 AND TP1, adjust A01 : T\_OFFSET on the service menu to be within the specification.
4. Press the "MARK OUT button" to quit adjustment mode.

### 2-2. S Reel Torque Offset Adjustment

VTR	VTR1	VTR2
Board	ENCODER VR1	ENCODER VR2
Spec	0V +/- 5mV	
TP	TP3 (S_ERR) TP6 (SPA) TP1 (TMG)	TP3 (S_ERR) TP6 (SPA) TP1 (TMG)
Adjust	A02 : S_OFFSET	
Input	-----	
Mode	EJECT	
Tape	-----	
M.EQ	D.V.M	

1. Open the service menu A00 : SERVO ADJUST.
2. Connect D.V.M to TP3 and TP1. Adjust A02: S\_OFFSET on the service menu to be within the specification.
3. Connect D.V.M to TP6 and TP1. Adjust A02: S\_OFFSET on the service menu to be within the specification.
4. press the "MARK OUT button" to quit adjustment mode.

### 2-3. Motor Torque Offset Adjustment

VTR	VTR1	VTR2
Board	SERVO	
Spec	0.15cN·m +/- 0.02 cN·m (15g +/- 2g) (Five times average)	
TP	-----	
Adjust	A03 : T_TORQUE A04 : S_TORQUE	
Mode	EJECT	
M.EQ	Dial torque gauge	

#### 1. Adjustment for VTR1 side

1. Open the service menu A00: SERVO ADJUST and then select A03: T\_TORQUE.
2. Set a Dial torque gauge onto the T reel motor.
3. Press the "VTR1 button" until loading is completed.
4. Adjust A03: T\_TORQUE so that the reel torque (Five times average) is within the specification.
5. Select A04: S\_TORQUE.
6. Set a Dial torque gauge onto the S reel motor.
7. Adjust A04: S\_TORQUE so that the reel torque (Five times average) is within the specification.
8. press "MARK OUT button" to quit adjustment mode.

#### 2. Adjustment for VTR2 side

9. Open the service menu A00: SERVO ADJUST and then select A03: T\_TORQUE.
10. Set a Dial torque gauge onto the T reel motor.
11. Press the "VTR2 button" until loading is completed.
12. Adjust A03: T\_TORQUE so that the reel torque (Five times average) is within the specification.
13. Select A04: S\_TORQUE.
14. Set a Dial torque gauge onto the S reel motor.
15. Adjust A04: S\_TORQUE so that the reel torque (Five times average) is within the specification.
16. press "MARK OUT button" to quit adjustment mode.



## 2-4. PG Shifter Adjustment 1 (50M)

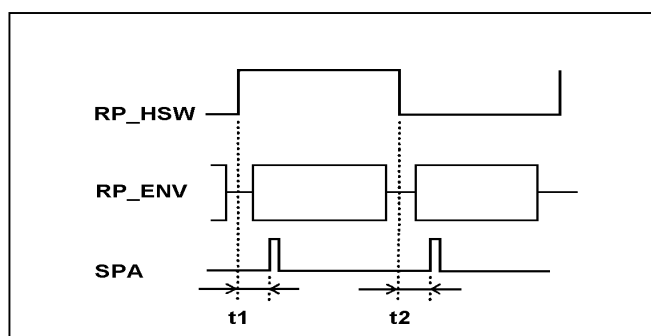
VTR	VTR1	VTR2
Board	ENCODER VR1 RF1	ENCODER VR2 RF2
Spec	t1, t2 = 126.8μs +/- 2μs	
TP	TP51902(RPHSW_L) [RF1] TP51401(ENV_L) [RF1] TP1(SPA) [ENCODER VR1]	TP52902(RPHSW_L) [RF2] TP52601(ENV_L) [RF2] TP1(SPA) [ENCODER VR2]
Adjust	A06 : PG_SFTR_50_R	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

### 1. Adjustment for VTR1 side

1. Open the service menu A00: SERVO ADJUST and then select A06: PG\_SFTR\_50\_R.
2. Play Alignment tape.
3. After the SERVO LED is light, keep pressing the VTR1 button until A06: PG\_SFTR\_50\_R value is renewed after A06 value become "0" at once.
4. Connect Oscilloscope to TP51902, TP51401 and TP1. Then confirm that t1 and t2 is within the specification as shown below.

### 2. Adjustment for VTR2 side

5. Open the service menu A00: SERVO ADJUST and then select A06: PG\_SFTR\_50\_R.
6. Play Alignment tape.
7. After the SERVO LED is light, keep pressing the VTR2 button until A06 : PG\_SFTR\_50\_R value is renewed after A06 value become "0" at once.
8. Connect Oscilloscope to TP52902, TP52601 and TP1. Then confirm that t1 and t2 is within the specification as shown below.



## 2-5. PG Shifter Adjustment 2 (25M)

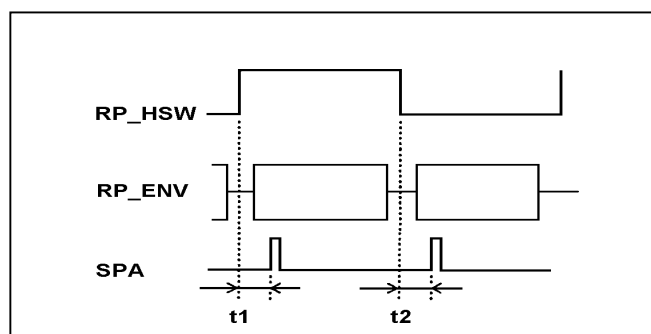
VTR	VTR1	VTR2
Board	ENCODER VR1 RF1	ENCODER VR2 RF2
Spec	t1, t2 = 253.6μs +/- 4μs	
TP	TP51902(RPHSW_L) [RF1] TP51401(ENV_L) [RF1] TP1(SPA) [ENCODER VR1]	TP52902(RPHSW_L) [RF2] TP52601(ENV_L) [RF2] TP1(SPA) [ENCODER VR2]
Adjust	A07 : PG_SFTR_25_R	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

### 1. Adjustment for VTR1 side

1. Open the service menu A00: SERVO ADJUST and then select A07: PG\_SFTR\_25\_R.
2. Play Alignment tape.
3. After the SERVO LED is light, keep pressing the VTR1 button until A07: PG\_SFTR\_25\_R value is renewed after A07 value become "0" at once.
4. Connect Oscilloscope to TP51902, TP51401 and TP1. Then confirm that t1 and t2 is within the specification as shown below.

### 2. Adjustment for VTR2 side

5. Open the service menu A00: SERVO ADJUST and then select A07: PG\_SFTR\_25\_R.
6. Play Alignment tape.
7. After the SERVO LED is light, keep pressing the VTR1 button until A07: PG\_SFTR\_25\_R value is renewed after A07 value become "0" at once.
8. Connect Oscilloscope to TP52902, TP52601 and TP1. Then confirm that t1 and t2 is within the specification as shown below.





## 3. RF, EQ

### 3-1. Auto EQ Adj. Procedure

The AJ-LT95 equipped with Automatic RF, EQ adjustment function in Service menu. For Operating Instructions as shown below.

VTR	VTR1	VTR2
Spec	RP Head: More than 5 PB Head: More than 9 (See 3-1-2. Instruction of Status Display)	
TP	-----	-----
Adjust	I22: RF AUTO ADJ I23: RF ADJ MODE	
Mode	-----	
Tape	VFM3683KM	
M.EQ	-----	

#### 3-1-1. Perform Adjustment

- Set the Service menu as shown below.

I23: RF ADJ MODE : 128  
I22: RF AUTO ADJ : ALL

**NOTE:** When adjustment needs to be done on specific mode, set menu I22: RF AUTO ADJ as follows.

ALL	Adjust all mode
50ALL	Adjust all 50M mode (PB+RP+REC)
25ALL	Adjust all 25M mode (PB+RP+REC)
50PB	Adjust only 50M PB Head
50RP	Adjust only 50M RP Head
50REC	Adjust only 50M REC mode
25PB	Adjust only 25M PB Head
25RP	Adjust only 25M RP Head
25REC	Adjust only 25M REC mode

- Set Cursor (\*) to I22: RF AUTO ADJ.
- Press VTR1 or VTR2 button according to VTR for adjustment and "ENTER" button simultaneously. In this case the Cursor is changed from "": Asterisk" to "→: Arrow mark".
- Insert the Alignment tape rewind.
- Auto EQ adjustment will be started and then display status on the LCD screen.
- Auto EQ adjustment is performed from 50PB to 25 REC. (It takes about 15minutes)
- When tape is Ejected, Adjustment is completed.
- Press "C" key on numerical keypad. (To exit from auto EQ adjustment mode)

#### 3-1-2. Instruction of Status Display

During auto adjustment, following status are displayed.

SERVICE-MENU SYS			
	①	②	③
50PB	MVPT	FFFF	AAAA
50RP	MVPT	FFFF	AAAA
25PB	MVPT	FFFF	AAAA
25RP	MVPT	FFFF	AAAA
50REC	→ MVPT	FFFF	AAAA
25REC			
	→ I22: RF AUTO ADJ	-	ALL
	I23: RF ADJ MODE	-	128
	I24: PB SLIDE VR	-	VAL
	I25: DIAG DISP	-	

Status Display (Example)

Meaning of above status display is follows.

##### ① Adjustment Status

M : Proceeding ENV level adjustment  
V : Proceeding VCO adjustment  
P : Proceeding EQ Phase adjustment  
T : Proceeding EQ tap value adjustment

**NOTE:** When adjustment is completed, each Adjustment status will be keep display. If it has any problem of adjustment quality, each adjustment status will be disappeared and then display "Error Code" in Audio error rate display portion "③". For details, refer "3-1-3. Adjustment log and Error code display".

##### ② Error Rate Display (VIDEO)

##### ③ Error Rate Display (AUDIO)

Display condition of L1, L2, R1 and R2 (From left to right)

High←	Error rate																→Low
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
RP Spec						↑											
PB Spec										↑							

##### ④ Result of Auto EQ Adjustment

Display OK or NG to show if result is in specification or not.

\*How to quit while Auto EQ adjustment is on going.

Before Cassette Insert	Press "C" key on numerical keypad.
After Cassette Insert	Press "Eject" button and then press "C" key on numerical keypad.



### 3-1-3. Adjustment Log and Error Code Display

Adjustment log displays condition status of RF, EQ auto adjustment. If it has any problem of adjustment quality, each adjustment status will be disappeared and then display "Error Code" in Audio error rate display portion "㊸".

#### Adjustment Log (Meaning of Disappear)

M:	Refer to CODE: E008 in Error Code List.
V:	Refer to CODE: E006 in Error Code List.
P:	Refer to CODE: E009 in Error Code List.
T:	Refer to CODE: E007 in Error Code List.
C:	Refer to CODE: E010 – E013 in Error Code List.
F:	

#### Error Code List

CODE:	CAUSE	REMEDY
E000	Servo does not lock.	Confirm the Alignment tape is VFM3613KM or not.
E001	Video signal does not read.	
E002	Time out	
E003	Time out (Flag waiting).	
E004	Mechanism has not been transferred.	Check the Mechanism transport. (Loading/Capstan etc.)
E005	Search speed has not been changed.	
E006	VCO data transfer error.	Confirm connection between DIGITAL Board and MAIN CONTROL Board.
E007	TAP data transfer error.	
E008	ENV adjustment has been out of the specification (500mV +/- 50mVp-p).	Implement Manual adjustment "3-2-1. – 3-2-4. EQ Pre Adjustment" for it comes under VTR mode.
E009	At least one head has been out of the specification in EQ adjustment.	Implement Manual adjustment "3-2-5. – 3-2-8. EQ Adjustment" for it comes under VTR mode.
E010 E011 E012 E013	At least one head has been out of the specification in REC EQ adjustment.	Implement Manual adjustment "3-2-9. – 3-2-10. REC EQ Adjustment" for it comes under VTR mode.



## 3-2. Manual EQ Adj. Procedure

### 3-2-1. EQ Pre-adjustment (50M PB)

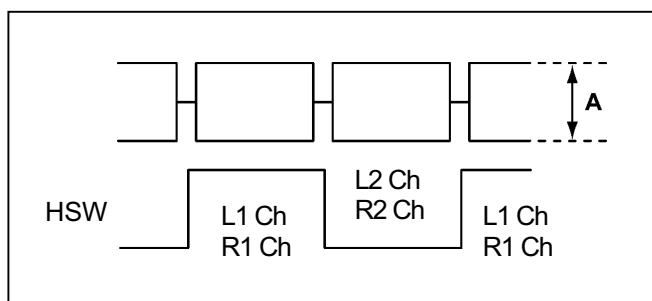
VTR	VTR1	VTR2
Board	DIGITAL 1	DIGITAL 2
Spec	A = 500mV +/- 50mVp-p	
TP	TP53102 (L Ch) TP53152 (R Ch) TP53701 (HSW)	TP54102 (L Ch) TP54152 (R Ch) TP54701 (HSW)
Adjust	B01: PB MAG L1 B02: PB MAG L2 B05: PB MAG R1 B06: PB MAG R2	
Input	-----	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

#### <Adjustment for VTR1 side>

1. Open the service menu B00: RF\_50M\_PB ADJUST and then press the VTR1 button.
2. Connect an Oscilloscope to TP53102 and TP53701. Then adjust B01 PB MAG L1 (L1 Ch) and B02 PB MAG L2 (L2 Ch) so that the signal level A is within the specification.
3. Connect an Oscilloscope to TP53152 and TP53701. Then adjust B05 PB MAG R1 (R1 Ch) and B06 PB MAG R2 (R2 Ch) so that the signal level A is within the specification.

#### <Adjustment for VTR2 side>

4. Open the service menu B00: RF\_50M\_PB ADJUST and then press the VTR2 button.
5. Connect an Oscilloscope to TP54102 and TP54701. Then adjust B01 PB MAG L1 (L1 Ch) and B02 PB MAG L2 (L2 Ch) so that the signal level A is within the specification.
6. Connect an Oscilloscope to TP54152 and TP54701. Then adjust B05 PB MAG R1 (R1 Ch) and B06 PB MAG R2 (R2 Ch) so that the signal level A is within the specification.



### 3-2-2. EQ Pre-adjustment (50M RP)

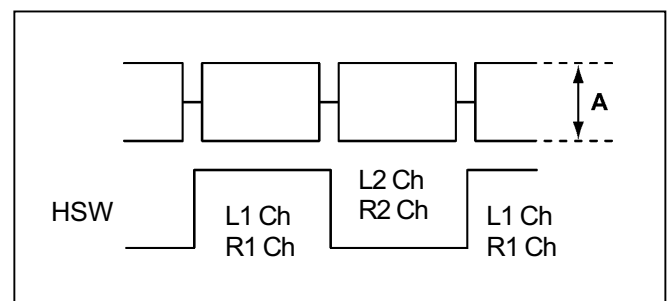
VTR	VTR1	VTR2
Board	DIGITAL 1	DIGITAL 2
Spec	A = 500mV +/- 50mVp-p	
TP	TP53102 (L Ch) TP53152 (R Ch) TP53701 (HSW)	TP54202 (L Ch) TP54252 (R Ch) TP54703 (HSW)
Adjust	C01: RP MAG L1 C02: RP MAG L2 C05: RP MAG R1 C06: RP MAG R2	
Input	-----	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

#### <Adjustment for VTR1 side>

1. Open the service menu C00: RF\_50M\_RP ADJUST and then press the VTR1 button.
2. Connect an Oscilloscope to TP53102 and TP53701. Then adjust C01 RP MAG L1 (L1 Ch) and C02 RP MAG L2 (L2 Ch) so that the signal level A is within the specification.
3. Connect an Oscilloscope to TP53152 and TP53701. Then adjust C05 RP MAG R1 (R1 Ch) and C06 RP MAG R2 (R2 Ch) so that the signal level A is within the specification.

#### <Adjustment for VTR2 side>

4. Open the service menu C00: RF\_50M\_RP ADJUST and then press the VTR2 button.
5. Connect an Oscilloscope to TP54202 and TP54703. Then adjust C01 RP MAG L1 (L1 Ch) and C02 RP MAG L2 (L2 Ch) so that the signal level A is within the specification.
6. Connect an Oscilloscope to TP54252 and TP54703. Then adjust C05 RP MAG R1 (R1 Ch) and C06 RP MAG R2 (R2 Ch) so that the signal level A is within the specification.





### 3-2-3. EQ Pre-adjustment (25M PB)

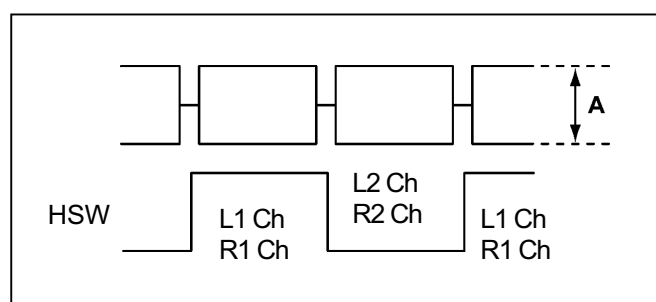
VTR	VTR1	VTR2
Board	DIGITAL 1	DIGITAL 2
Spec	A = 500mV +/- 50mVp-p	
TP	TP53102 (L Ch) TP53152 (R Ch) TP53701 (HSW)	TP54102 (L Ch) TP54152 (R Ch) TP54701 (HSW)
Adjust	E01: PB MAG L1 E02: PB MAG L2 E05: PB MAG R1 E06: PB MAG R2	
Input	-----	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

#### <Adjustment for VTR1 side>

1. Open the service menu E00: RF\_25M\_PB ADJUST and then press the VTR1 button.
2. Connect an Oscilloscope to TP53102 and TP53701. Then adjust E01 PB MAG L1 (L1 Ch) and E02 PB MAG L2 (L2 Ch) so that the signal level A is within the specification.
3. Connect an Oscilloscope to TP53152 and TP53701. Then adjust E05 PB MAG R1 (R1 Ch) and E06 PB MAG R2 (R2 Ch) so that the signal level A is within the specification.

#### <Adjustment for VTR2 side>

4. Open the service menu E00: RF\_25M\_PB ADJUST and then press the VTR2 button.
5. Connect an Oscilloscope to TP54102 and TP54701. Then adjust E01 PB MAG L1 (L1 Ch) and E02 PB MAG L2 (L2 Ch) so that the signal level A is within the specification.
6. Connect an Oscilloscope to TP54152 and TP54701. Then adjust E05 PB MAG R1 (R1 Ch) and E06 PB MAG R2 (R2 Ch) so that the signal level A is within the specification.



### 3-2-4. EQ Pre-adjustment (25M RP)

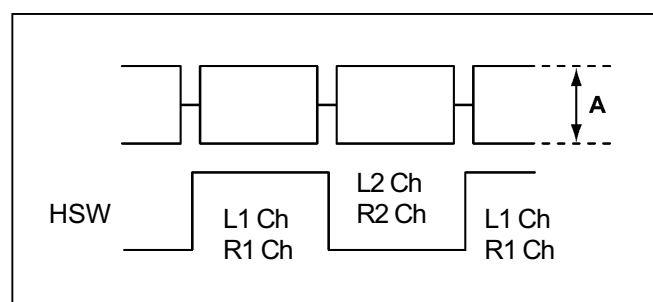
VTR	VTR1	VTR2
Board	DIGITAL 1	DIGITAL 2
Spec	A = 500mV +/- 50mVp-p	
TP	TP53102 (L Ch) TP53152 (R Ch) TP53701 (HSW)	TP54202 (L Ch) TP54252 (R Ch) TP54703 (HSW)
Adjust	F01: RP MAG L1 F02: RP MAG L2 F05: RP MAG R1 F06: RP MAG R2	
Input	-----	
Mode	PLAY	
Tape	VFM3680KM/KL or VFM3480KM : Colour bar	
M.EQ	Oscilloscope	

#### <Adjustment for VTR1 side>

1. Open the service menu F00: RF\_25M\_PB ADJUST and then press the VTR1 button.
2. Connect an Oscilloscope to TP53102 and TP53701. Then adjust F01 RP MAG L1 (L1 Ch) and F02 RP MAG L2 (L2 Ch) so that the signal level A is within the specification.
3. Connect an Oscilloscope to TP53152 and TP53701. Then adjust F05 RP MAG R1 (R1 Ch) and F06 RP MAG R2 (R2 Ch) so that the signal level A is within the specification.

#### <Adjustment for VTR2 side>

4. Open the service menu F00: RF\_25M\_PB ADJUST and then press the VTR2 button.
5. Connect an Oscilloscope to TP54202 and TP54703. Then adjust F01 RP MAG L1 (L1 Ch) and F02 RP MAG L2 (L2 Ch) so that the signal level A is within the specification.
6. Connect an Oscilloscope to TP54252 and TP54703. Then adjust F05 RP MAG R1 (R1 Ch) and F06 RP MAG R2 (R2 Ch) so that the signal level A is within the specification.





### 3-2-5. EQ Adjustment (50M PB)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	Audio level meter (Counter display)
<b>Adjust</b>	B03 : PB PHASE L1, B37 : VCO B04 : PB PHASE L2, B38 : TAP B07 : PB PHASE R1 B08 : PB PHASE R2
<b>Input</b>	-----
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM : Colour bar
<b>M.EQ</b>	-----

#### <Preparation>

1. Make a Tape EJECT mode.
2. Open the SERVICE MENU B00: RF\_50M\_PB ADJUST and then select B37 : VCO.
3. Press VTR1 or VTR2 button according to VTR for adjustment.
4. When "VCO FREQ SAVE" message is displayed, press the "MARK IN button".

#### <EQ adjustment>

5. Set the menu on the SERVICE MENU as shown below.

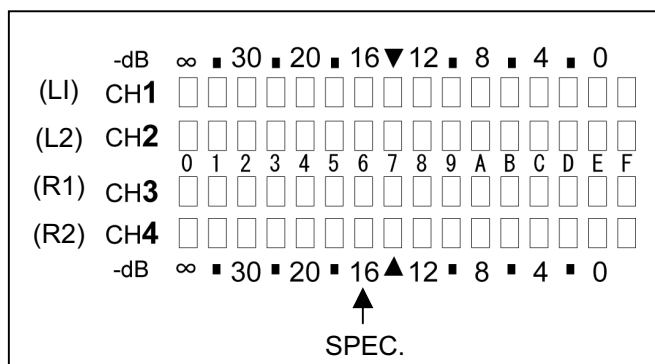
B13 VITERBI : OFF

B16 AUTO EQ : OFF

6. Play Alignment Tape.
7. Adjust B03 PB PHASE L1 (L1 Ch) and B04 PB PHASE L2 (L2 Ch) so that Error rate (L Ch) is within the specification.
8. Adjust B07 PB PHASE R1 (R1 Ch) and B08 PB PHASE R2 (R2 Ch) so that Error rate (R Ch) is within the specification.

#### <Result Confirmation and store Adj. Data>

9. Set B13, B16 to "ON" on SERVICE MENU, Confirm Error rate is within the specification.
10. Select B38: TAP on SERVICE MENU (Press the "MARK IN button"). Then press the "MARK IN button" again at the "TAP SAVE".



### 3-2-6. EQ Adjustment (50M RP)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	Audio level meter (Counter display)
<b>Adjust</b>	C03 : RP PHASE L1, C37 : VCO C04 : RP PHASE L2, C38 : TAP C07 : RP PHASE R1 C08 : RP PHASE R2
<b>Input</b>	-----
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM : Colour bar
<b>M.EQ</b>	-----

#### <Preparation>

1. Make a Tape EJECT mode.
2. Open the SERVICE MENU C00: RF\_50M\_RP ADJUST and then select C37: VCO.
3. Press VTR1 or VTR2 button according to VTR for adjustment.
4. When "VCO FREQ SAVE" message is displayed, press the "MARK IN button".

#### <EQ adjustment>

5. Set the menu on the SERVICE MENU as shown below.

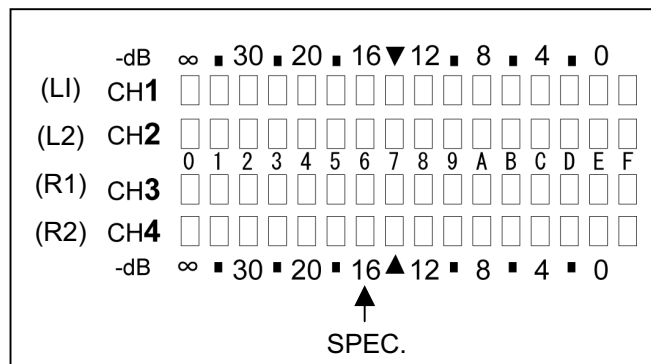
C13 VITERBI : OFF

C16 AUTO EQ : OFF

6. Play Alignment Tape.
7. Adjust C03 RP PHASE L1 (L1 Ch) and C04 RP PHASE L2 (L2 Ch) so that Error rate (L Ch) is within the specification.
8. Adjust C07 RP PHASE R1 (R1 Ch) and C08 RP PHASE R2 (R2 Ch) so that Error rate (R Ch) is within the specification.

#### <Result Confirmation and store Adj. Data>

9. Set C13, C16 to "ON" on SERVICE MENU, Confirm Error rate is within the specification.
10. Select C38: TAP on SERVICE MENU (Press the "MARK IN button"). Then press the "MARK IN button" again at the "TAP SAVE".





### 3-2-7. EQ Adjustment (25M PB)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	Audio level meter (Counter display)
<b>Adjust</b>	E03 : PB PHASE L1, E37 : VCO E04 : PB PHASE L2, E38 : TAP E07 : PB PHASE R1 E08 : PB PHASE R2
<b>Input</b>	-----
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM : Colour bar
<b>M.EQ</b>	-----

#### <Preparation>

1. Make a Tape EJECT mode.
2. Open the SERVICE MENU E00: RF\_25M\_PB ADJUST and then select E37: VCO.
3. Press VTR1 or VTR2 button according to VTR for adjustment.
4. When "VCO FREQ SAVE" message is displayed, press the "MARK IN button".

#### <EQ adjustment>

5. Set the menu on the SERVICE MENU as shown below.

E13 VITERBI : OFF

E16 AUTO EQ : OFF

6. Play the alignment Tape.
7. Adjust E03 PB PHASE L1 (L1 Ch) and E04 PB PHASE L2 (L2 Ch) so that Error rate (L Ch) is within the specification.
8. Adjust E07 PB PHASE R1 (R1 Ch) and E08 PB PHASE R2 (R2 Ch) so that Error rate (R Ch) is within the specification.

#### <Result Confirmation and store Adj. Data>

9. Set E13, E16 to "ON" on SERVICE MENU, Confirm Error rate is within the specification.
10. Select E38: TAP on SERVICE MENU (Press the "MARK IN button"). Then press the "MARK IN button" again at the "TAP SAVE".

-dB	∞	■	30	■	20	■	16	▼	12	■	8	■	4	■	0
(L1) CH1	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
(L2) CH2	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E
(R1) CH3	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
(R2) CH4	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
-dB	∞	■	30	■	20	■	16	▲	12	■	8	■	4	■	0
								↑							
								SPEC.							

### 3-2-8. EQ Adjustment (25M RP)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	Audio level meter (Counter display)
<b>Adjust</b>	F03 : RP PHASE L1, F37 : VCO F04 : RP PHASE L2, F38 : TAP F07 : RP PHASE R1 F08 : RP PHASE R2
<b>Input</b>	-----
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM : Colour bar
<b>M.EQ</b>	-----

#### <Preparation>

1. Make a Tape EJECT mode.
2. Open the SERVICE MENU F00: RF\_25M\_RP ADJUST and then select F37: VCO.
3. Press VTR1 or VTR2 button according to VTR for adjustment.
4. When "VCO FREQ SAVE" message is displayed, press the "MARK IN button".

#### <EQ adjustment>

5. Set the menu on the SERVICE MENU as shown below.

F13 VITERBI : OFF

F16 AUTO EQ : OFF

6. Play the alignment Tape.
7. Adjust F03 RP PHASE L1 (L1 Ch) and F04 RP PHASE L2 (L2 Ch) so that Error rate (L Ch) is within the specification.
8. Adjust F07 RP PHASE R1 (R1 Ch) and F08 RP PHASE R2 (R2 Ch) so that Error rate (R Ch) is within the specification.

#### <Result Confirmation and store Adj. Data>

9. Set F13, F16 to "ON" on SERVICE MENU, Confirm Error rate is within the specification.
10. Select F38: TAP on SERVICE MENU (Press the "MARK IN button"). Then press the "MARK IN button" again at the "TAP SAVE".

-dB	∞	■	30	■	20	■	16	▼	12	■	8	■	4	■	0
(L1) CH1	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
(L2) CH2	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E
(R1) CH3	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
(R2) CH4	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
-dB	∞	■	30	■	20	■	16	▲	12	■	8	■	4	■	0
								↑							
								SPEC.							



### 3-2-9. REC EQ Adjustment (50M)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	TP51401 (L Ch) TP51501 (R Ch) Audio level meter (Counter display)
<b>Adjust</b>	D01 : REC CURR L1, D02 : REC CURR L2 D03 : REC FREQ L1, D04 : REC FREQ L2 D05 : REC CURR R1, D06 : REC CURR R2 D07 : REC FREQ R1, D08 : REC FREQ R2
<b>Input</b>	-----
<b>Mode</b>	REC / PLAY
<b>Tape</b>	Blank Tape
<b>M.EQ</b>	Oscilloscope

#### <Preparation>

- Set the SERVICE MENU as shown below.  
B13 VITERBI : OFF  
B16 AUTO EQ : OFF  
D00: RF 50M REC ADJ **MARK IN**
- Press VTR1 or VTR2 button according to VTR for adjustment.

#### <Adjustment : L Ch>

- Connect an Oscilloscope to TP51401. Adjust D01, D02 so that the signal level becomes small, and readjust D01, D02 so that the level is become large (until no change).
- Adjust D01, D02 so that Error rate is within specification. (Variable range : +/- 30 steps)
- Connect an Oscilloscope to TP51401. Adjust D03, D04 so that the signal level becomes small, and readjust D03, D04 so that the level is become large (until no change).
- Adjust D03, D04 so that Error rate is within specification. (Variable range : +/- 30 steps)

#### <Adjustment : R Ch>

- Connect an Oscilloscope to TP51501. Adjust D05, D06 so that the signal level becomes small, and readjust D05, D06 so that the level is become large (until no change).
- Adjust D05, D06 so that Error rate is within specification. (Variable range : +/- 30 steps)
- Connect an Oscilloscope to TP51501. Adjust D07, D08 so that the signal level becomes small, and readjust D07, D08 so that the level is become large (until no change).
- Adjust D07, D08 so that Error rate is within specification. (Variable range : +/- 30 steps)

#### <Result confirmation>

- Set the SERVICE MENU as shown below.  
B13 VITERBI : ON  
B16 AUTO EQ : ON
- Record any signal for few minutes and then play recorded portion.
- Confirm Error rate is within the Specification.

### 3-2-10. REC EQ Adjustment (25M)

<b>Board</b>	RF1(VTR1), RF2(VTR2)
<b>Spec</b>	Error rate : less than 6
<b>TP</b>	TP51401 (L Ch) TP51501 (R Ch) Audio level meter (Counter display)
<b>Adjust</b>	G01 : REC CURR L1, G02 : REC CURR L2 G03 : REC FREQ L1, G04 : REC FREQ L2 G05 : REC CURR R1, G06 : REC CURR R2 G07 : REC FREQ R1, G08 : REC FREQ R2
<b>Input</b>	-----
<b>Mode</b>	REC / PLAY
<b>Tape</b>	Blank Tape
<b>M.EQ</b>	Oscilloscope

#### <Preparation>

- Set the SERVICE MENU as shown below.  
E13 VITERBI : OFF  
E16 AUTO EQ : OFF  
G00: RF 25M REC ADJ **MARK IN**
- Press VTR1 or VTR2 button according to VTR for adjustment.

#### <Adjustment : L Ch>

- Connect an Oscilloscope to TP51401. Adjust G01, G02 so that the signal level becomes small, and readjust G01, G02 so that the level is become large (until no change).
- Adjust G01, G02 so that Error rate is within specification. (Variable range : +/- 30 steps)
- Connect an Oscilloscope to TP51401. Adjust G03, G04 so that the signal level becomes small, and readjust G03, G04 so that the level is become large (until no change).
- Adjust G03, G04 so that Error rate is within specification. (Variable range : +/- 30 steps)

#### <Adjustment : R Ch>

- Connect an Oscilloscope to TP51501. Adjust G05, G06 so that the signal level becomes small, and readjust G05, G06 so that the level is become large (until no change).
- Adjust G05, G06 so that Error rate is within specification. (Variable range : +/- 30 steps)
- Connect an Oscilloscope to TP51501. Adjust G07, G08 so that the signal level becomes small, and readjust G07, G08 so that the level is become large (until no change).
- Adjust G07, G08 so that Error rate is within specification. (Variable range : +/- 30 steps)

#### <Result confirmation>

- Set the SERVICE MENU as shown below.  
E13 VITERBI : ON  
E16 AUTO EQ : ON
- Record any signal for few minutes and then play recorded portion.
- Confirm Error rate is within the Specification.

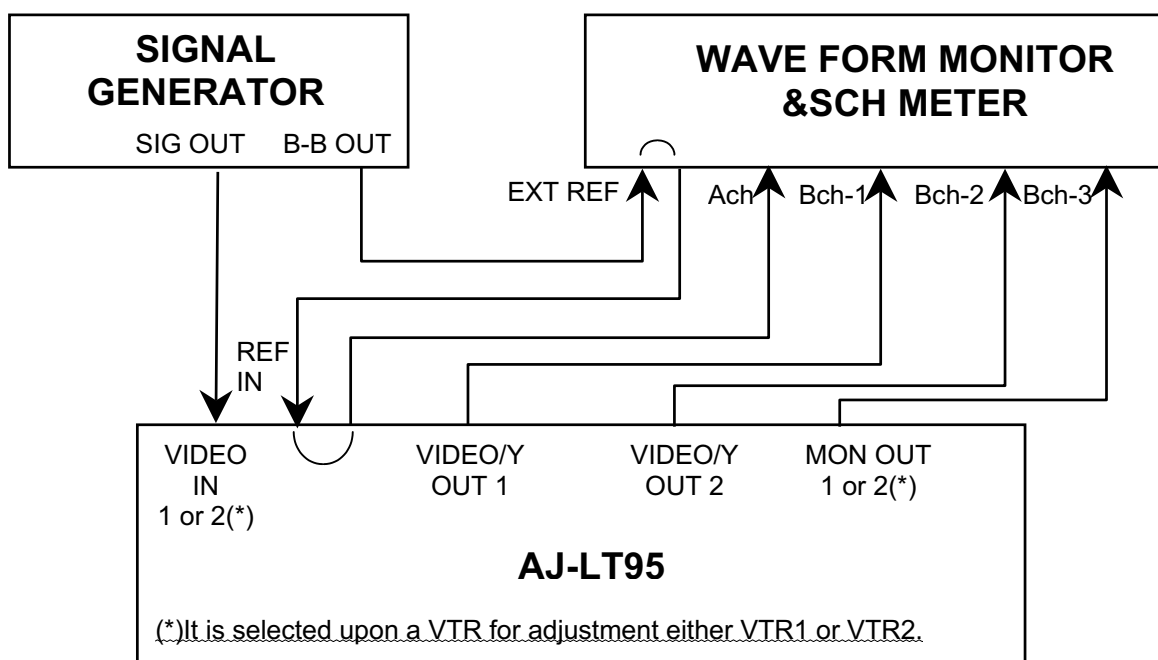


## 4. SYSTEM

### Preparation

1. Set the OPERATION MODE SW to "SEPARATE" Position without other instruction.
2. For Digital1 Board adjustment, use Input/Output connector and Encoder VRs of VTR1 and for Digital2 Board and Syncgen Board adjustment, use them of VTR2 without other instruction.
3. Set the Encoder VRs as following.  
SYSTEM H : Center click position  
SYSTEM SC FINE : Center click position  
SCH COARSE SW : 0 position
4. Performing adjustment more than 10 minutes after turning power on.
5. Input to REF IN connector should be VIDEO IN signal or signal synchronized with VIDEO IN.

#### 4-1. Connection for System Adjustment



#### <NOTE>

Since the AJ-LT95 is switchable for NTSC / PAL systems, Signal Generator, WFM and SCH meter for both system required.

#### 4-2. How to set the TV SYSTEM Mode (625 / 525)

1. Open the SETUP MENU 070: TV SYSTEM on VTR2 side.
2. Set the parameter to "625" or "525".
3. Turn the power Off then ON.

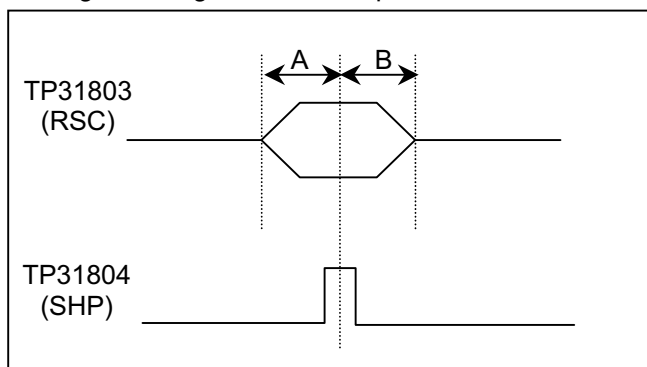


## 4-3. Adjustment for VTR1 side

### 4-3-1. SG S/H Adjustment (625 mode)

<b>Board</b>	Digital1
<b>Spec</b>	A=B +/- 10%
<b>TP</b>	TP31803 (RSC) TP31804 (SHP)
<b>Adjust</b>	VR31801
<b>Input</b>	REF IN / VIDEO IN 1: 75% Colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Oscilloscope

1. Connect an Oscilloscope to TP31803 (RSC) and TP31804 (SHP) then adjust VR31801 so that the signal timing is within the specification.



### 4-3-2. 17.7MHz VCO Adjustment (625 mode)

<b>Board</b>	Digital1
<b>Spec</b>	17734476Hz +/- 5Hz
<b>TP</b>	TP31903 (FS)
<b>Adjust</b>	VC31901 (FS PHASE)
<b>Input</b>	-----
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Frequency Counter

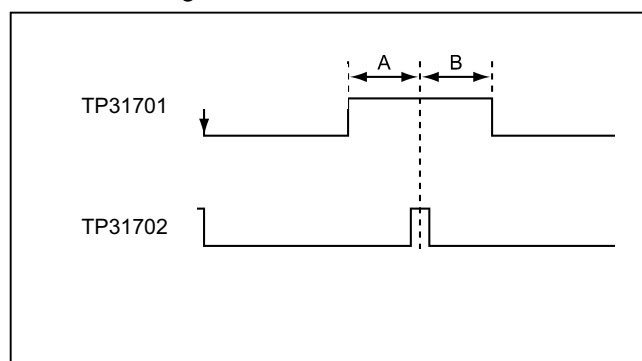
1. Disconnect REF IN signal.
2. Connect a Frequency counter to TP31903 then adjust VC31901 so that the frequency is within the specification.

### 4-3-3. CF DET Adjustment (625 mode)

<b>Board</b>	Digital1
<b>Spec</b>	A = B +/- 10%
<b>TP</b>	TP31701 TP31702
<b>Adjust</b>	VR31802 (DET)
<b>Input</b>	REF IN / VIDEO IN 1: 75% Colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Oscilloscope

1. Connect an Oscilloscope to TP31702 and TP31701 then adjust VR31802 so that the signal timing is within the specification.

**NOTE:** Confirm SCH of REF IN and VIDEO IN signal is 0 degrees.





#### 4-3-4. System H Phase Adjustment (525/625 mode)

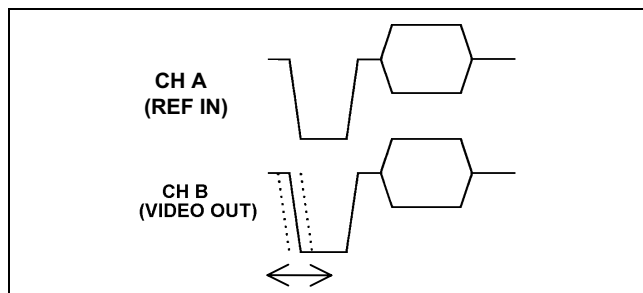
<b>Board</b>	Digital1
<b>Spec</b>	SCH : 0 +/- 1 degrees WFM: same timing CH A with CH B
<b>TP</b>	REF IN VIDEO/Y OUT 1
<b>Adjust</b>	I16:N_H_PHASE (525 mode) I19:P_SYS_SC (625 mode) I20:P_H_PHASE (625 mode) VR32001 (625 mode) VR31701 (625 mode)
<b>Input</b>	REF IN, VIDEO IN 1: 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	WFM, SCH meter

##### <Adjustment for 525 mode>

1. Open the SERVICE MENU and press the VTR1 button.
2. Adjust I16: N\_H\_PHASE so that CH B sync position meet it of CH A on WFM.

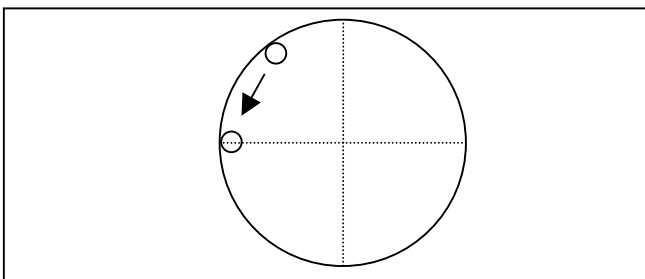
##### <Adjustment for 625 mode>

1. Open the SERVICE MENU and press the "VTR1 button".
2. Adjust I20: P\_H\_PHASE so that the CH A and CH B meet together on WFM.
3. If it does not meet by EVR, adjust VR31701.



**NOTE:** Set WFM to EXT REF mode.

4. Adjust I19: P\_SYS\_SC so that the CH A and CH B meet together on SCH meter.
5. If SCH can not be in specification by EVR, adjust VR32001.

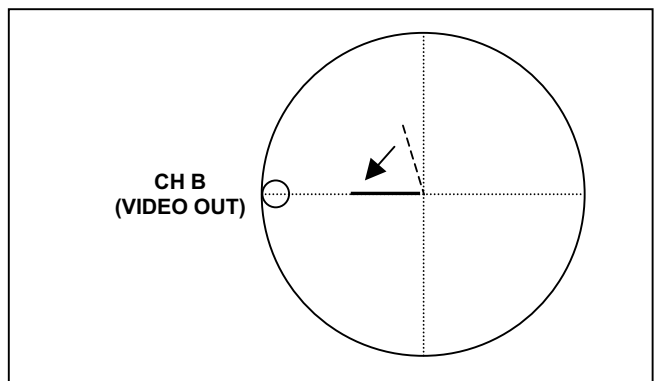


#### 4-3-5. Burst Phase Adjustment (525/625 mode)

<b>Board</b>	Digital1, Encoder VR
<b>Spec</b>	0 +/- 2 degrees
<b>TP</b>	REF IN VIDEO/Y OUT 1
<b>Adjust</b>	I14 : N_SCH (525 mode) B35 : ATFGL (525 mode) I18 : P_SCH (625 mode)
<b>Input</b>	REF IN, VIDEO IN 1: 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	SCH meter

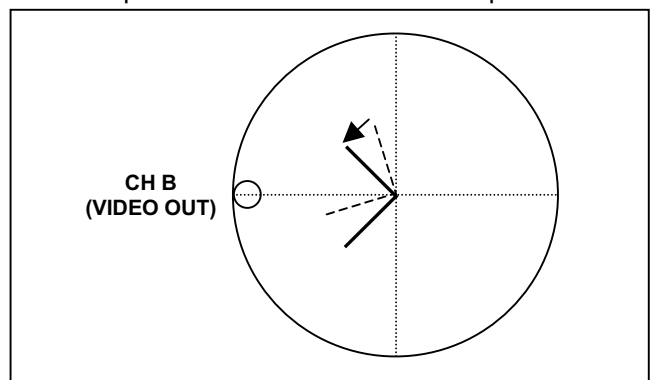
##### <Adjustment for 525 mode>

1. Open the Service menu and adjust B35: ATFGL so that the burst phase of VIDEO/Y OUT 1 (burst phase is changed 90 degrees each) come close to 0 degrees on SCH meter.
2. Adjust I14: N\_SCH so that the VIDEO/Y OUT 1 burst phase to REF IN signal is within the specification.



##### <Adjustment for 625 mode>

1. Set the SCH COARSE SW [Encoder Vr P.C.B] so that the burst phase of VIDEO/Y OUT 1 (burst phase is changed 90 degrees each) come to close to +/-135 degrees on SCH meter.
2. Adjust I18: P\_SCH so that the VIDEO/Y OUT 1 burst phase to REF IN is within the specification.



**NOTE:** Set SCH meter to EXT REF mode.



### 4-3-6. Video Position Adjustment (525/625 mode)

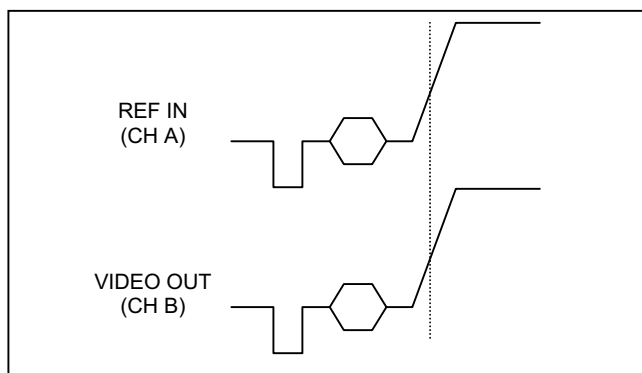
<b>Board</b>	Digital1
<b>Spec</b>	WFM: CH A and CH B same timing
<b>TP</b>	REF IN VIDEO/Y OUT 1
<b>Adjust</b>	I17 : N_VIDEO POS (525 mode) I21 : P_VIDEO POS (625 mode)
<b>Input</b>	REF IN : 100% colour bar
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3580KM or KL : Colour bar VFM3680KM or KL : Colour bar
<b>M.EQ</b>	WFM

#### <Adjustment for 525 mode>

1. Input 100% Colour Bar signal to REF IN connector.
2. Play the Alignment tape. (VFM3580KM or KL)
3. Adjust I17: N\_VIDEO POS so that the CH A and CH B Colour bar signal start timing meet together.

#### <Adjustment for 625 mode>

4. Input 100% Colour Bar signal to REF IN connector.
5. Play the Alignment tape. (VFM 3580KM or KL)
6. Adjust I21: P\_VIDEO POS so that the CH A and CH B Colour bar signal start timing meet together.





## 4-4. Adjustment for VTR2 side

### 4-4-1. SG S/H Adjustment (525/625 mode)

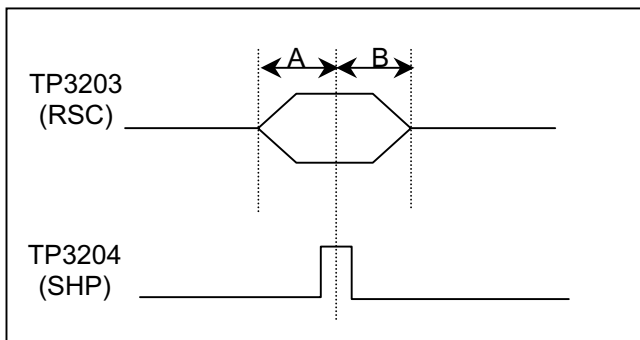
<b>Board</b>	Syncgen
<b>Spec</b>	A=B +/- 10%
<b>TP</b>	TP3203 (RSC) TP3204 (SHP)
<b>Adjust</b>	VR3201 (S/H PULSE NTSC) VR3203 (S/H PULSE PAL)
<b>Input</b>	REF IN / VIDEO IN 2 : 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Oscilloscope

#### <Adjustment for 525 mode>

1. Connect an Oscilloscope to TP3203 (RSC) and TP3204 (SHP) then adjust VR3201 so that the signal timing is within the specification.

#### <Adjustment for 625 mode>

2. Connect an Oscilloscope to TP3203 (RSC) and TP3204 (SHP), adjust VR3203 so that the signal timing is within the specification.



### 4-4-2. 14.3MHz VCO Adjustment (525 mode)

<b>Board</b>	Syncgen
<b>Spec</b>	14318180Hz +/- 5Hz
<b>TP</b>	TP3304 (FS)
<b>Adjust</b>	VC3301(FS PHASE NTSC)
<b>Input</b>	-----
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Frequency Counter

1. Disconnect REF IN signal.
2. Connect a Frequency counter to TP3304 then adjust VC3301 so that the frequency is within the specification.

### 4-4-3. 17.7MHz VCO Adjustment (625 mode)

<b>Board</b>	Syncgen
<b>Spec</b>	17734476Hz +/- 5Hz
<b>TP</b>	TP3304 (FS)
<b>Adjust</b>	VC3302 (FS PHASE PAL)
<b>Input</b>	-----
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Frequency Counter

1. Disconnect REF IN signal.
2. Connect a Frequency Counter to TP3304 then adjust VC3302 so that the Frequency is within the specification.

### 4-4-4. CF DET Adjustment (525/625 mode)

<b>Board</b>	Syncgen
<b>Spec</b>	A = B +/- 10%
<b>TP</b>	TP3101 (TP1) TP3102 (TP2)
<b>Adjust</b>	VR3202 (CF DET NTSC) VR3204 (CF DET PAL)
<b>Input</b>	REF IN / VIDEO IN 2 : 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	Oscilloscope

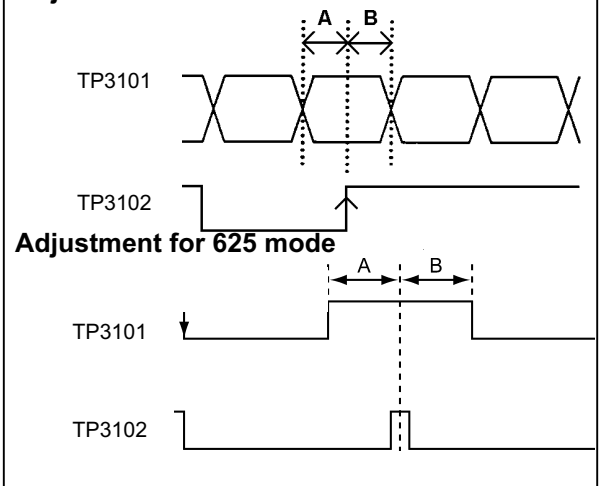
#### <Adjustment for 525 mode>

1. Connect an Oscilloscope to TP3102 and TP3101 then adjust VR3202 so that the signal timing is within the specification.

#### <Adjustment for 625 mode>

2. Connect an Oscilloscope to TP3101 and TP3102 then adjust VR3204 so that the Signal timing is within the specification.

#### Adjustment for 525 mode



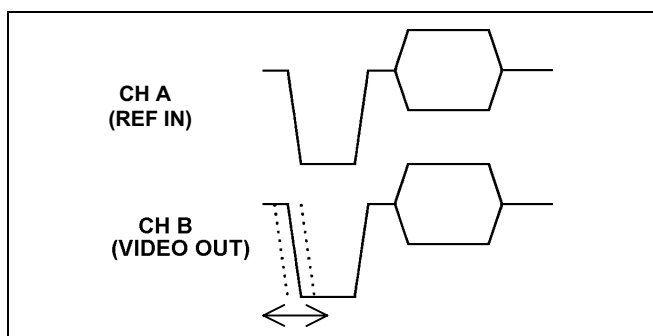


#### 4-4-5. System H Phase Adjustment (525/625 mode)

<b>Board</b>	Syncgen
<b>Spec</b>	SCH : 0 +/- 1 degrees WFM: same timing CH A with CH B
<b>TP</b>	REF IN VIDEO/Y OUT 2
<b>Adjust</b>	I15:N_SYS_SC (525 mode) VR3402 (525 mode) I16:N_H_PHASE (525 mode) VR3101 (525 mode) I19:P_SYS_SC (625 mode) VR3401 (625 mode) I20:P_H_PHASE (625 mode) VR3102 (625 mode)
<b>Input</b>	REF IN, VIDEO IN 2: 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	WFM, SCH meter

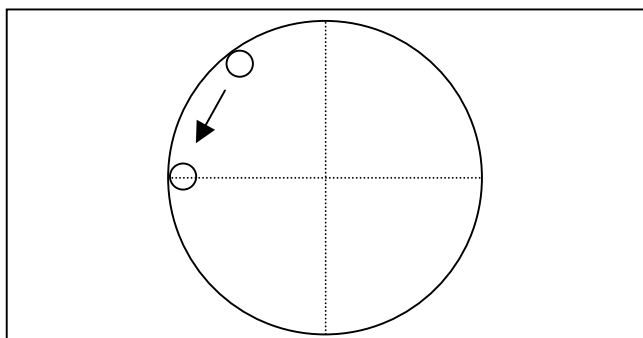
##### <Adjustment for 525 mode>

1. Open the SERVICE MENU and press the "VTR2 button".
2. Adjust I16: N\_H\_PHASE so that CH B sync position meet it of CH A on WFM.
3. If it does not meet by EVR, adjust VR3101 so that the phase in specification.



**NOTE :** Set WFM to EXT REF mode.

4. Adjust I15: N\_SYS\_SC so that the system H phase match on SCH meter.
5. Adjust I15: N\_SYS\_SC so that CH A and CH B meet together on SCH meter.
6. If phase can not be in specification by EVR, adjust VR3101.



##### <Adjustment for 625 mode>

7. Open the SERVICE MENU and press the "VTR2 button".
8. Adjust I20: P\_H\_PHASE so that CH B sync position meet it of CH A on WFM.
9. If it does not meet by EVR, adjust VR3102.
10. Adjust I19: P\_SYS\_SC so that the system H phase match on SCH meter.
11. If phase can not be in specification by EVR, adjust VR3401.

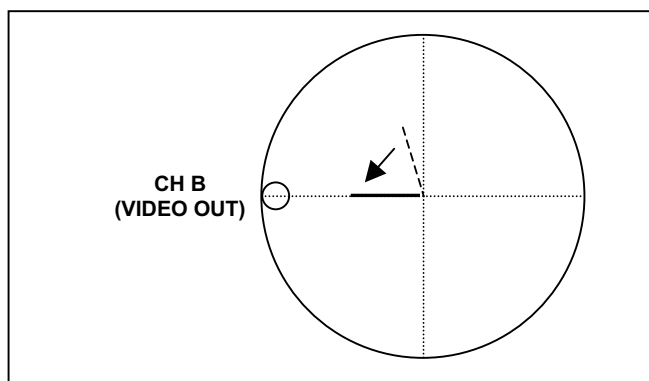


#### 4-4-6. Burst Phase Adjustment (525/625 mode)

<b>Board</b>	Digital2, Encoder VR
<b>Spec</b>	0 +/- 2 degrees
<b>TP</b>	REF IN VIDEO/Y OUT 2
<b>Adjust</b>	I14 : N_SCH (525 mode) B35 : ATFGL (525 mode) I18 : P_SCH (625 mode)
<b>Input</b>	REF IN, VIDEO IN 2: 75% colour bar
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	SCH meter

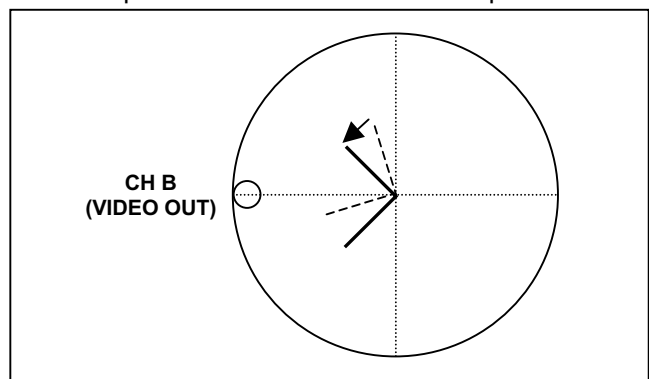
##### <Adjustment for 525 mode>

1. Open the Service menu and adjust B35: ATFGL so that the burst phase of VIDEO/Y OUT 2 (burst phase is changed 90 degrees each) come close to 0 degrees on SCH meter.
2. Adjust I14: N\_SCH so that the VIDEO/Y OUT 2 burst phase to REF IN is within the specification.



##### <Adjustment for 625 mode>

3. Set the SCH COARSE SW [Encoder VR P.C.B] so that the burst phase of VIDEO/Y OUT 2 (burst phase is changed 90 degrees each) come close to +/- 135 degrees on SCH meter.
4. Adjust I18: P\_SCH so that the VIDEO/Y OUT 2 burst phase to REF IN is within the specification.



**NOTE:** Set SCH meter to EXT REF mode.

#### 4-4-7. Video Position Adjustment (525/625 mode)

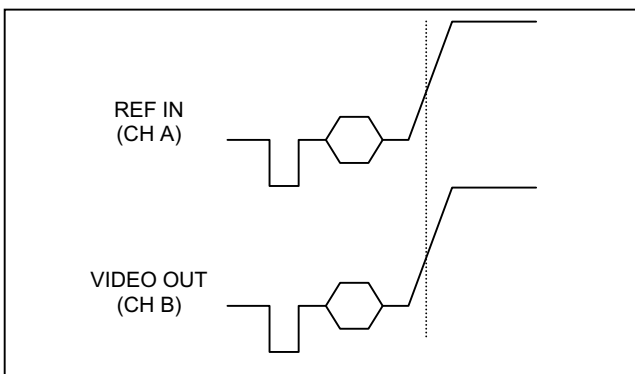
<b>Board</b>	Digital2
<b>Spec</b>	WFM: CH A and CH B same timing
<b>TP</b>	REF IN VIDEO/Y OUT 2
<b>Adjust</b>	I17 : N_VIDEO POS (525 mode) I21 : P_VIDEO POS (625 mode)
<b>Input</b>	REF IN : 100% colour bar
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3580KM or KL : Colour bar VFM3680KM or KL : Colour bar
<b>M.EQ</b>	WFM

##### <Adjustment for 525 mode>

1. Input 100% Colour Bar signal to REF IN connector.
2. Play Alignment tape. (VFM3580KM or KL)
3. Adjust I17: N\_VIDEO POS so that the CH A and CH B Colour bar signal start timing meet together.

##### <Adjustment for 625 mode>

4. Input 100% Colour Bar signal to REF IN connector.
5. Play Alignment tape. (VFM3680KM or KL)
6. Adjust I21: P\_VIDEO POS so that the CH A and CH B Colour bar signal start timing meet together.





# 5. AUDIO/VIDEO

## 5-1.Audio Section

### Preparation

1. Set the SW on Unit as follows.

#### [The Bottom of Counter display]

OPERATION MODE	:	EXT
V2 VIDEO IN	:	ANALOG
CONTROL	:	LOCAL
ANALOG AUDIO IN	:	V2 (4CH)
ANALOG AUDIO OUT	:	V2 (4CH)

#### [Main Control Panel]

V2 INPUT SELECT SW	:	ANALOG (All 4 Channels)
V2 INPUT SELECT VR CH1	:	1
V2 INPUT SELECT VR CH2	:	2
V2 INPUT SELECT VR CH3	:	3
V2 INPUT SELECT VR CH4	:	4
AUDIO MONITOR SELECT SW	:	V2
AUDIO MONITOR SELECT SW [L(V1)]	:	CH 1
AUDIO MONITOR SELECT SW [R(V2)]	:	CH 2
V1, V2 REC VR	:	Click point
V2 PB VR	:	Click point

2. Open the SETUP MENU (SHIFT + 7 button) and Set as follows.

701-709 CH1-CH4 IN LEV	:	0dB
714 EMPHASIS	:	OFF
726 REC CUE	:	CH1 + 2
731 CUE OUT SEL	:	OFF
772 AUDIO MONI	:	V1 + V2

3. Set the SW on these P.C.Board as follows.

#### AUDIO/VIDEO P.C.Board

SW 45101(CH1)	:	High
SW45102 (CH2)	:	High
SW 40101 (CH3)	:	High
SW 40102 (CH4)	:	High

#### REAR JACK P.C.Board

LINE / MIC select SW	:	LINE
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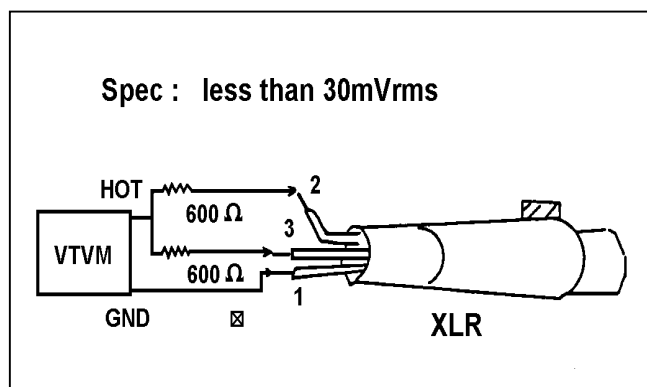


### 5-1-1. Output Balance Adjustment

<b>Board</b>	AUDIO/VIDEO, AV IO, AV SUB
<b>Spec</b>	Less than 30mVrms
<b>TP</b>	LINE OUT (CH1 / CH2 / CH3 / CH4), AUDIO MON OUT (L Ch / R Ch)
<b>Adjust</b>	VR46001 (CH1) [AUDIO/VIDEO] VR46002 (CH2) [AUDIO/VIDEO] VR41001 (CH3) [AV SUB] VR41002 (CH4) [AV SUB] VR42101 (L CH) [AV IO] VR42102 (R CH) [AV IO]
<b>Input</b>	INTERNAL TEST TONE (1kHz)
<b>Mode</b>	EJECT
<b>Tape</b>	-----
<b>M.EQ</b>	VTVM

1. Make the following tool to measure the output balance.
2. Set the SERVICE MENU "I08: INT SG" to ON.
3. Connect the following tool to the each output, and adjust the each VR so that the signal level is within specification.

**NOTE:** Perform output balance adjustment before the Output level adjustment.



### 5-1-2. Output Level Adjustment

<b>Board</b>	AUDIO/VIDEO
<b>Spec</b>	LINE OUT : +4dBm +/- 0.2dB AUDIO MON OUT : 0dBu +/- 0.2dB
<b>TP</b>	LINE OUT (CH1 / CH2 / CH3 / CH4) AUDIO MON OUT (L Ch / R Ch)
<b>Adjust</b>	VR45201 (CH1), VR45202 (CH2), VR40201 (CH3), VR40202 (CH4) VR41101 (R Ch), VR41201 (L Ch)
<b>Input</b>	-----
<b>Mode</b>	EJECT
<b>Tape</b>	INTERNAL TEST TONE (1kHz)
<b>M.EQ</b>	VTVM

1. Set the MENU at the VTR2 side as shown below.  
 SETUP MENU  
 012 SYS FORMAT : 50M  
 SERVICE MENU  
 I08: INT SG : ON

2. Set the PB VR to Click point.
3. Adjust VR45201 so that the LINE OUT (CH1) level is within the specification.
4. Adjust VR45202 so that the LINE OUT (CH2) level is within the specification.
5. Adjust VR40201 so that the LINE OUT (CH3) level is within the specification.
6. Adjust VR40202 so that the LINE OUT (CH4) level is within the specification.
7. Adjust VR41101 so that the AUDIO MON OUT (L CH) level is within the specification.
8. Adjust VR41201 so that the AUDIO MON OUT (R CH) level is within the specification.

### 5-1-3. CUE PB Level Adjustment

VTR	VTR1	VTR2
<b>Board</b>	AUDIO/VIDEO	
<b>Spec</b>	-12dBu +/- 0.5dB	-12dBu +/- 1.0dB
<b>TP</b>	TP40501	TP45501
<b>Adjust</b>	VR40505 (V1 CUE PB)	VR45505 (V2 CUE PB)
<b>Input</b>	-----	
<b>Mode</b>	PLAY	
<b>Tape</b>	VFM3580KM or KL (NTSC) : 1KHz 0Vu VFM3680KM or KL (PAL) : 1KHz 0Vu	
<b>M.EQ</b>	VTVM	

1. Set the Menu and Front SW as shown below.  
 <Menu>  
 ANALOG AUDIO IN : V1, V2 (2CH)  
 ANALOG AUDIO OUT : V1, V2 (2CH)

<SW>  
 013 PB FORMAT : AUTO

2. Play the Alignment tape.
3. Adjust VR40505 so that TP40501 level is within the specification.
4. Adjust VR45505 so that TP45501 level is within the specification.



#### 5-1-4. CUE Noise Cancel Adjustment (50M)

VTR	VTR1	VTR2
<b>Board</b>	AUDIO/VIDEO	
<b>Spec</b>	Less than -35dBu	
<b>TP</b>	VTR1 MON OUT (L Ch)	VTR2 MON OUT (R Ch)
<b>Adjust</b>	VR40501(C_LV9) VR40503(C_PS9) VR40506(150 PBE)	VR45501(C_LV9) VR45503(C_PS9) VR45506(150 PBE)
<b>Input</b>	-----	
<b>Mode</b>	STILL	
<b>Tape</b>	Blank tape	
<b>M.EQ</b>	Audio analyzer	

1. Set the menu and Front SW (VTR1/VTR2) as shown bellow.

<Menu>

771 AUDIO SLOW : A-CUE  
012 SYS FORMAT : 50M  
013 PB FORMAT : MANUAL

<SW>

ANALOG AUDIO OUT SW : V1, V2 (2Ch)

##### <Adjustment for VTR1 side>

2. Set the AUDIO MONITOR SELECT SW to "V1" side.
3. Connect VTR1 MON OUT (L CH) to Audio analyzer and set Audio analyzer B.P.F frequency to 600Hz. Then insert Blank tape and press still button.
4. Adjust VR40501(Cancel level adjustment) and VR40503(Cancel phase adjustment)so that the signal noise level is within the specification. (Minimum)
5. Change Audio analyzer B.P.F Frequency to 150Hz, and adjust VR40506 so that the signal noise level is within the specification.

##### <Adjustment for VTR2 side>

6. Set the AUDIO MONITOR SELECT SW to "V2" side.
7. Connect VTR2 MON OUT (R CH) to Audio analyzer and set Audio analyzer B.P.F frequency to 600Hz. Then insert Blank tape and press still button.
8. Adjust VR45501(Cancel level adjustment) and VR45503(Cancel phase adjustment)so that the signal noise level is within the specification. (Minimum)
9. Change Audio analyzer B.P.F Frequency to 150Hz, and adjust VR45506 so that the signal noise level is within the specification.

#### 5-1-5. CUE Noise Cancel Adjustment (25M)

VTR	VTR1	VTR2
<b>Board</b>	AUDIO/VIDEO	
<b>Spec</b>	Less than -30dBu	
<b>TP</b>	VTR1 MON OUT (L Ch)	VTR2 MON OUT (R Ch)
<b>Adjust</b>	VR40502(C_LV4) VR40504(C_PS4)	VR45502(C_LV4) VR45504(C_PS4)
<b>Input</b>	-----	
<b>Mode</b>	STILL	
<b>Tape</b>	Blank tape	
<b>M.EQ</b>	TV Monitor, Audio analyzer	

1. Set the menu and Front SW (VTR1/VTR2) as shown bellow.

<Menu>

771 AUDIO SLOW : A-CUE  
012 SYS FORMAT : 25M  
013 PB FORMAT : MANUAL

<SW>

ANALOG AUDIO OUT SW : V1, V2 (2Ch)

##### <Adjustment for VTR1 side>

2. Set the AUDIO MONITOR SELECT SW to "V1" side.
3. Connect VTR1 MON OUT (L CH) to Audio analyzer and set Audio analyzer B.P.F frequency to 300Hz. Then insert Blank tape and press still button.
4. Adjust VR40502(Cancel level adjustment) and VR40504(Cancel phase adjustment)so that the signal noise level is within the specification. (Minimum)

##### <Adjustment for VTR2 side>

5. Set the AUDIO MONITOR SELECT SW to "V2" side.
6. Connect VTR2 MON OUT (R CH) to Audio analyzer and set Audio analyzer B.P.F frequency to 300Hz. Then insert Blank tape and press still button.
7. Adjust VR45502(Cancel level adjustment) and VR45504(Cancel phase adjustment)so that the signal noise level is within the specification. (Minimum)



### 5-1-6. CUE Bias Current Adjustment

VTR	VTR1	VTR2
Board	AUDIO/VIDEO	
Spec	7.0mVrms +/- 0.5mV	
TP	TP40401 TP40402 (GND)	TP45401 TP45402 (GND)
Adjust	VR40402 (BIAS)	VR45402 (BIAS)
Input	-----	
Mode	REC, PLAY	
Tape	Blank tape	
M.EQ	VTVM	

#### <Adjustment for VTR1 side>

1. Record any signal by VTR1.
2. Connect a VTVM to TP40401-TP40402 (GND side). Then adjust VR40402 so that the signal level is within the specification.

#### <Adjustment for VTR2 side>

3. Record any signal by VTR2.
4. Connect a VTVM to TP45401-TP45402 (GND side). Then adjust VR45402 so that the signal level is within the specification.

**NOTE:** Set VTVM to FLAT mode.

### 5-1-7. CUE REC/PLAY Level Adjustment

VTR	VTR1	VTR2
Board	AUDIO/VIDEO	
Spec	-12dBu +/- 1.0 dB	
TP	TP40501 TP40403	TP45501 TP45403
Adjust	VR40401 (REC CURR)	VR45401 (REC CURR)
Input	LINE IN CH1 : 1KHz 4dBm LINE IN CH2 : 1KHz 4dBm	
Mode	REC, PLAY	
Tape	Blank tape	
M.EQ	VTVM, Audio analyzer	

1. Set the menu as shown below.  
012 SYS FORMAT : 50M

#### <Adjustment for VTR1 side>

2. Record any signal by VTR1.
3. Connect a VTVM to TP40403, adjust VR40401 so that the signal level is within the specification.
4. Connect a VTVM to TP40501.
5. Play recorded portion and Confirm TP40501 signal level is within the specification.

#### <Adjustment for VTR2 side>

6. Record any signal by VTR2.
7. Connect a VTVM to TP45403, adjust VR45401 so that the signal level is within the specification.
8. Connect a VTVM to TP45501.
9. Play recorded portion and confirm TP45501 signal level is within the specification.

### 5-1-8. BEEP Sound Adjustment

Board	AV IO
Spec	30mVrms +/- 1 mVrms
TP	TP42201, TP42202
Adjust	VR42201(FREQ), VR42202(LEVEL) SW42201
Input	-----
Mode	EJECT
Tape	-----
M.EQ	VTVM, Frequency counter

1. Set the SW42201 to OFF.
2. Connect a Frequency counter to TP42201. Then adjust VR42201 so that the frequency is 4.15KHz +/- 0.05KHz.
3. Connect a VTVM to TP42202. Then adjust VR42202 so that the signal level is within the specification.
4. Set the SW42201 to ON.



## 5-2.Video Section

### Preparation

- Set the menu item as follows. Without other instruction.

174 VTR1 IN SEL : V1\_IN  
622 SETUP 25 : THRU  
623 SETUP 50 : THRU

- Set the Encoder VRs as following. (Both VTR)  
VIDEO LEVEL : Center click position  
SETUP : Center click position  
HUE : Center click position  
CHROMA LEVEL : Center click position
- Perform adjustment, more than 10 minutes after turning power on.
- When use the alignment tape, set VTR 25M, 625 mode.
- Input to REF IN connector should be VIDEO IN signal or signal synchronized with VIDEO IN.

#### 5-2-1. Composite Setup Adjustment

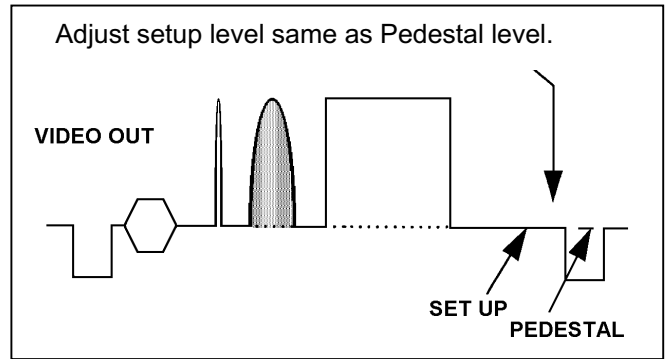
VTR	VTR1	VTR2
Board	Digital 1	Digital 2
Spec	A Level with B level is 0 +/- 0.5 IRE	
TP	VIDEO/Y OUT1	VIDEO/Y OUT2
Adjust	VR32502(SOFST_NT) VR32503(SOFST PAL)	VR33502(SOFST_NT) VR33503(SOFST PAL)
Input	-----	
Mode	EE	
Tape	-----	
M.EQ	WFM	

##### <Adjustment for 525 mode>

- Set "671: V OUT SEL" on the SETUP MENU to CMPST.
- Connect a WFM to VIDEO/Y OUT1. Then adjust VR32502 so that the signal setup level is same as pedestal level.
- Connect a WFM to VIDEO/Y OUT2. Then adjust VR33502 so that the signal setup level is same as pedestal level.

##### <Adjustment for 625 mode>

- Set "671: V OUT SEL" on the SETUP MENU to CMPST.
- Connect a WFM to VIDEO/Y OUT1. Then adjust VR32503 so that the signal setup level is same as pedestal level.
- Connect a WFM to VIDEO/Y OUT2. Then adjust VR33503 so that the signal setup level is same as pedestal level.

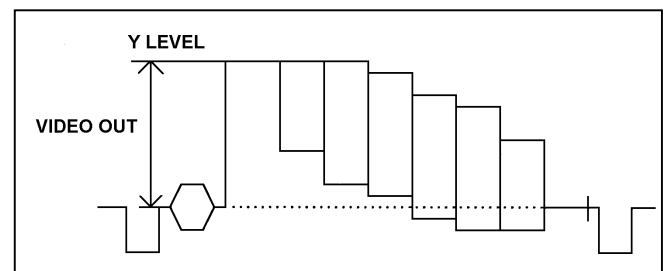


**NOTE:** As this signal has some carrier leak and noise etc, set the Y Filter switch of WFM to ON and magnify. Confirm setup VR is in click point.

#### 5-2-2. Composite Y Level Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	0.7V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR1201 (V1_CPS_LEV)	VR201 (V2_CPS_LEV)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

- Set "671: V OUT SEL" on the SETUP MENU to CMPST.
- Connect a WFM to VIDEO/Y OUT 1. Then adjust VR 1201 so that the signal level is within the specification.
- Connect a WFM to VIDEO/Y OUT 2. Then adjust VR201 so that the signal level is within the specification.

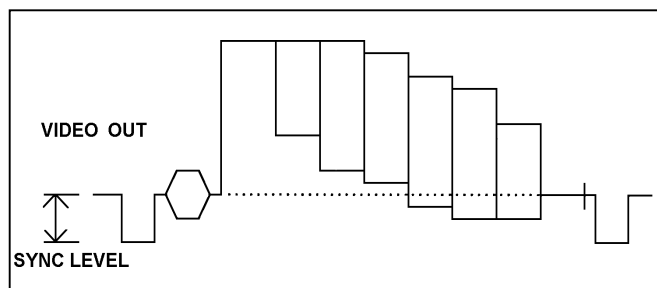




### 5-2-3. Sync Level Adjustment

VTR	VTR1	VTR2
Board	Digital 1	Digital 2
Spec	0.3V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR32501 (SYNC_LVL)	VR33501 (SYNC_LVL)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

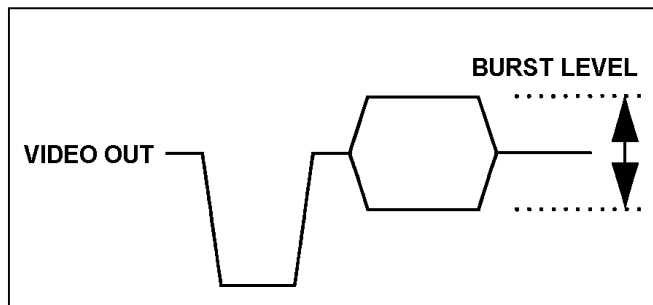
1. Set "671: V OUT SEL" on the SERVICE MENU to CMPST.
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR32501 so that the sync level is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR33501 so that the sync level is within the specification.



### 5-2-4. Burst Level Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	40IRE +/- 1IRE	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR1202 (V1_CPS_FRQ)	VR202 (V2_CPS_FRQ)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

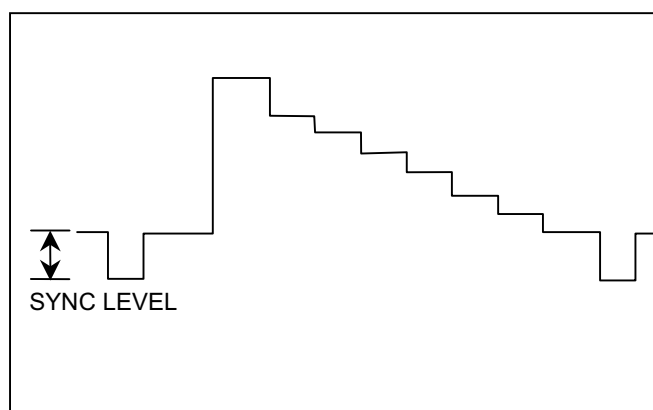
1. Set "671: V OUT SEL" on the SERVICE MENU to CMPST.
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR1202 so that the burst level is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR202 so that the burst level is within the specification.



### 5-2-5. Component Sync Level Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	0.3V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR1204 (V1_SYNC_LEV)	VR204 (V2_SYNC_LEV)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR1204 so that the sync level is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR204 so that the sync level is within the specification.

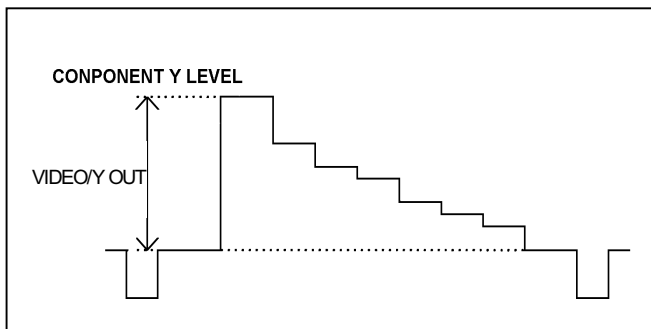




## 5-2-6. Component Y Level Adjustment

VTR	VTR1	VTR2
Board	Digital 1	Digital 2
Spec	0.714V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR32701(Y_LEV)	VR33701(Y_LEV)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR32701 so that the signal level is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR33701 so that the signal level is within the specification.



## 5-2-7. Component Pb,Pr Level Adjustment

VTR	VTR1	VTR2
Board	Digital 1	Digital 2
Spec	0.7V +/- 1%	
TP	PB OUT 1	PB OUT 2
Adjust	VR32703(PB_LEV) VR32702(PR_LEV)	VR33703(PB_LEV) VR33702(PR_LEV)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Colour bar	
M.EQ	WFM	

### <Pb Adjustment>

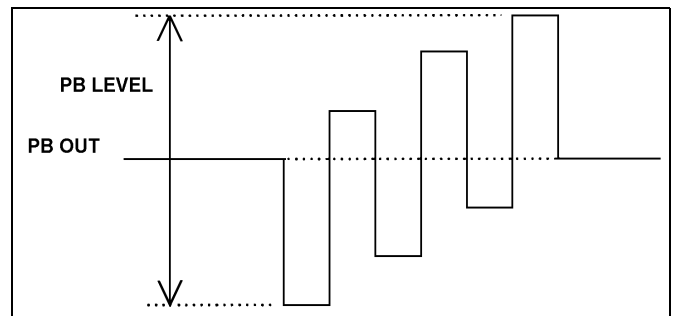
1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to PB OUT 1. Then adjust VR32703 so that the signal level is within the specification.

specification.

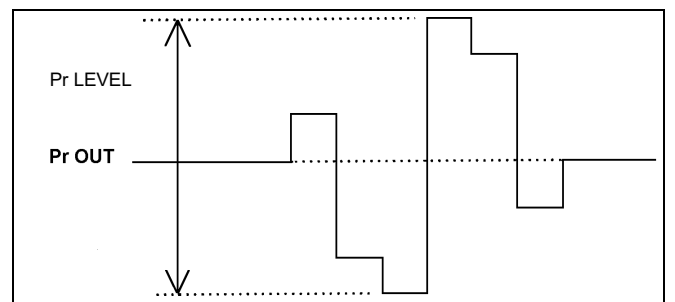
3. Connect a WFM to PB OUT 2, adjust VR33703 so that the signal level is within the specification.

### <Pr Adjustment>

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to Pr OUT 1. Then adjust VR32702 so that the signal level is within the specification.



3. Connect a WFM to Pr OUT 2. Then adjust VR33702 so that the signal level is within the specification.

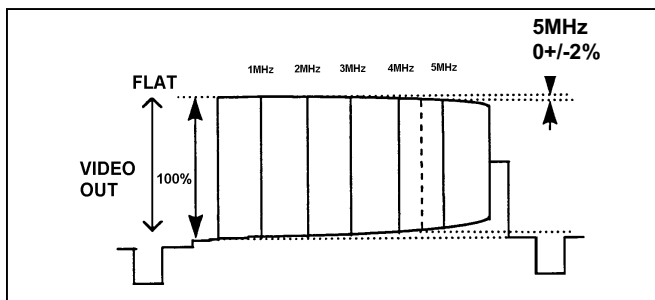




### 5-2-8. Component Frequency Response Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	5MHz portion is 0 +/- 2%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR1203 (V1_CPN_FRQ)	VR203 (V2_CPN_FRQ)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: H Sweep	
M.EQ	WFM	

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR1203 so that the signal frequency response is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR203 so that the signal frequency response is within the specification.



### 5-2-9. Component Y-Pb,Y-Pr Timing Adjustment

VTR	VTR1	VTR2
Board	V OUT 1	V OUT 2
Spec	0+/-10ns	
TP	VIDEO/Y OUT 1 PB OUT 1 PR OUT 1	VIDEO/Y OUT 2 PB OUT 2 PR OUT 2
Adjust	VR1402(V1_BY_DLY) VR1401(V1_RY_DLY)	VR402(V2_BY_DLY) VR401(V2_RY_DLY)
Input	-----	
Mode	PLAY	
Tape	VFM3680KM or KL: Bow tie	
M.EQ	WFM	

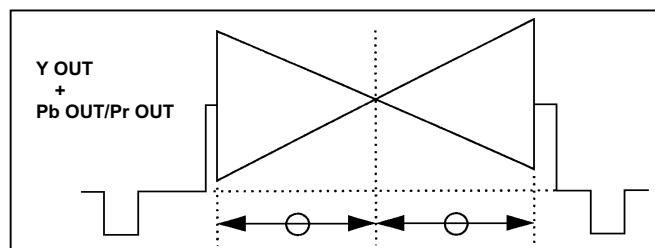
1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPNT

#### <Y-Pb Adjustment>

2. Connect a WFM to VIDEO/Y OUT 1, PB OUT 1 and then set the WFM to Component Y/C measurement mode. Then adjust VR1402 so that the signal timing is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2, PB OUT 2 and then set the WFM to Component Y/C measurement mode. Then adjust VR402 so that the signal timing is within the specification.

#### <Y-Pr Adjustment>

4. Connect a WFM to VIDEO/Y OUT 1, PR OUT 1 and then set the WFM to Component Y/C measurement mode. Then adjust VR1401 so that the signal timing is within the specification.
5. Connect a WFM to VIDEO/Y OUT 2, PR OUT 2 and then set the WFM to Component Y/C measurement mode. Then adjust VR401 so that the signal timing is within the specification.





### 5-2-10. 13.5MHz PLL Offset Adjustment

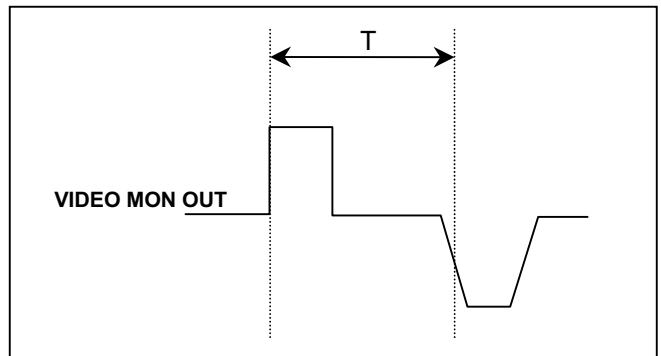
VTR	VTR1	VTR2
<b>Board</b>	AUDIO/VIDEO	
<b>Spec</b>	0 +/- 0.1V	
<b>TP</b>	TP3803(V1_ERR)	TP7803(V2_ERR)
<b>Adjust</b>	FL3803 (V1_PLL_OFS)	FL7803 (V2_PLL_OFS)
<b>Input</b>	VIDEO/Y IN 1 : 100% color bar	VIDEO/Y IN 2 : 100% color bar
<b>Mode</b>	EE	
<b>Tape</b>	-----	
<b>M.EQ</b>	Oscilloscope	

- Set SETUP MENU as shown below.  
670 : V IN SEL : CMPST
- Connect an Oscilloscope to TP3803. Then adjust the FL3803 so that the DC level is within the specification.
- Connect an Oscilloscope to TP7803. Then adjust the FL7803 so that the DC level is within the specification.

### 5-2-11. OSD Character Position adjustment

VTR	VTR1	VTR2
<b>Board</b>	AUDIO/VIDEO	
<b>Spec</b>	T = 5.0μsec +/- 0.2μsec	
<b>TP</b>	VIDEO MON OUT 1	VIDEO MON OUT 2
<b>Adjust</b>	VC3901(V1_CHAR)	VC3902(V2_CHAR)
<b>Input</b>	VIDEO/Y IN 1 : 50% Flatfield	VIDEO/Y IN 2 : 50% Flatfield
<b>Mode</b>	EE	
<b>Tape</b>	-----	
<b>M.EQ</b>	WFM	

- Set SETUP MENU and Front SW as shown below.  
**【Front SW】**  
ON SCREEN : ON (Display Mode)  
**【Items of Menu】**  
011 : CHA TYPE : WHITE  
670 : V IN SEL : CMPNT
- Connect a WFM to VIDEO MON OUT 1. Then adjust the VC3901 so that the timing between falling edge of sync and the last character area is within the specification.
- Connect a WFM to VIDEO MON OUT 2. Then adjust the VC3902 so that the timing between falling edge of sync and the last character area is within the specification.



### 5-2-12. OSD DC Level Adjustment

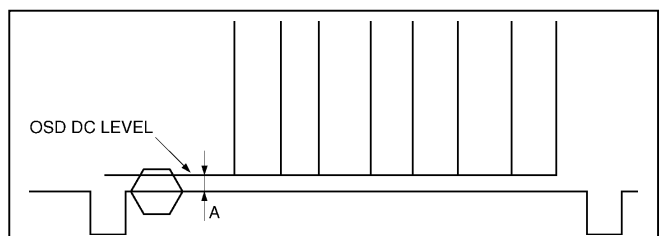
VTR	VTR1	VTR2
<b>Board</b>	AUDIO/VIDEO	
<b>Spec</b>	A = +21 / -0mV	
<b>TP</b>	VIDEO MON OUT 1	VIDEO MON OUT 2
<b>Adjust</b>	H01:CPS BLK DC	H01:CPS BLK DC
<b>Input</b>	-----	-----
<b>Mode</b>	EE	
<b>Tape</b>	-----	
<b>M.EQ</b>	Oscilloscope	

#### <Adjustment for VTR1 side>

- Connect an Oscilloscope to VIDEO MON OUT 1 and open the SERVICE MENU.
- Adjust the H01: CPS BLK DC so that OSD signals black level to signal pedestal level is within the specification.

#### <Adjustment for VTR2 side>

- Connect an Oscilloscope to VIDEO MON OUT 2 and open the SERVICE MENU.
- Adjust the H01: CPS BLK DC so that OSD signals black level to signal pedestal level is within the specification.





### 5-2-13. AD Y, Pb, Pr Clamp Level Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	A = +/- 5mV	
TP	VIDEO/Y OUT 1 PB OUT 1 PR OUT 1	VIDEO/Y OUT 2 PB OUT 2 PR OUT 2
Adjust	H07:YCLAMP DC [Y] H03:REC PR BAL [PR] H04:REC PB BAL [PB]	
Input	VIDEO/Y IN 1, PB IN1, PR IN1: 0% Flatfield	VIDEO/Y IN 2, PB IN2, PR IN2: 0% Flatfield
Mode	EE	
Tape	-----	
M.EQ	WFM	

- Set SETUP MENU as shown below.  
670 : V IN SEL : CMPNT  
671 : V OUT SEL : CMPNT

#### <Adjustment for VTR1 side>

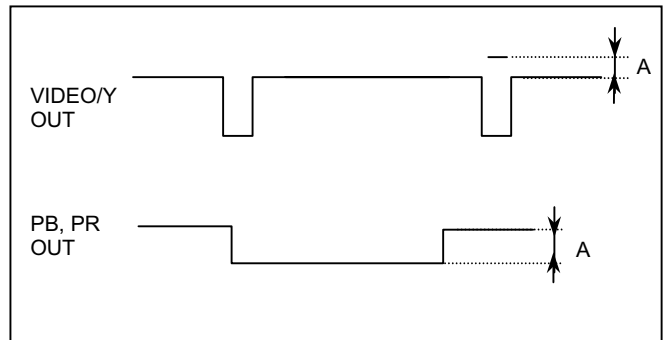
- Connect a WFM to VIDEO/Y OUT 1. Then adjust the H07 : Y CLAMP DC so that the signal pedestal level A is within the specification.
- Connect a WFM to PB OUT 1. Then adjust the H04 : REC PB BAL so that the signal pedestal level A is within the specification.
- Connect a WFM to PR OUT 1. Then adjust the H03 : REC PR BAL so that the signal pedestal level A is within the specification.

#### <Adjustment for VTR2 side>

- Connect a WFM to VIDEO/Y OUT 2. Then adjust the H07 : Y CLAMP DC so that the signal pedestal level A is within the specification.
- Connect a WFM to PB OUT 2. Then adjust the H04 : REC PB BAL so that the signal pedestal level A is within the specification.
- Connect a WFM to PR OUT 2. Then adjust the H03 : REC PR BAL so that the signal pedestal level A is within the specification.

**NOTE:** If any of above does not meet specification with EVR, adjust it with following VRs.

VTR1	VR3602 [V1_Y_CLAMP_DC]
	VR3704 [V1_PB_CLAMP_DC]
	VR3703 [V1_PR_CLAMP_DC]
VTR2	VR7602 [V2_Y_CLAMP_DC]
	VR7704 [V2_PB_CLAMP_DC]
	VR7703 [V2_PR_CLAMP_DC]

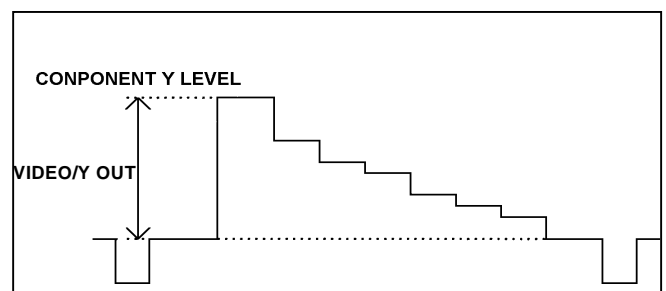


**NOTE:** As this signal has some carrier leak and noise etc, set the Y Filter switch of WFM to ON and magnify.

### 5-2-14. REC Component Y Level Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	0.7V +/- 1%	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR3601 (V1_CPN_Y_LEV)	VR7601 (V1_CPN_Y_LEV)
Input	VIDEO/Y IN 1, PB IN1, PR IN1: 100% color bar	VIDEO/Y IN 2, PB IN2, PR IN2: 100% color bar
Mode	EE	
Tape	-----	
M.EQ	WFM	

- Set SETUP MENU as shown below.  
670 : V IN SEL : CMPNT  
671 : V OUT SEL : CMPNT
- Connect a WFM to VIDEO/Y OUT 1. Then adjust VR3601 so that the signal level is within the specification.
- Connect a WFM to VIDEO/Y OUT 2. Then adjust VR7601 so that the signal level is within the specification.





## 5-2-15. REC Component Pb,Pr Level Adjustment

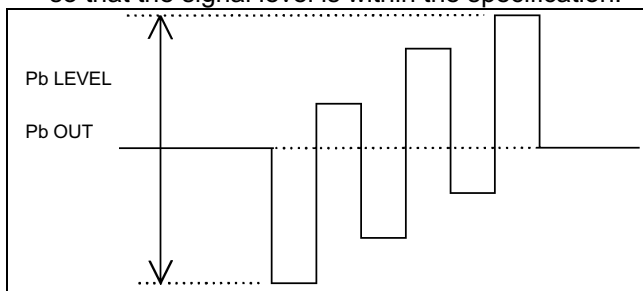
VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	0.7V +/- 1%	
TP	PB OUT 1 PR OUT 1	PB OUT 2 PR OUT 2
Adjust	VR3702 (CPN PB LEV) VR3701 (CPN PR LEV)	VR7702 (CPN PB LEV) VR7701 (CPN PR LEV)
Input	VIDEO/Y IN 1, PB IN1, PR IN1: 100% color bar	VIDEO/Y IN 2, PB IN2, PR IN2: 100% color bar
Mode	EE	
Tape	-----	
M.EQ	WFM	

- Set SETUP MENU as shown below.

670 : V IN SEL : CMPNT  
671 : V OUT SEL : CMPNT

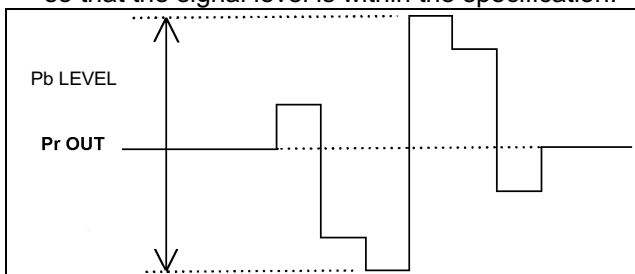
### <Pb Adjustment>

- Connect a WFM to PB OUT 1. Then adjust VR3702 so that the signal level is within the specification.
- Connect a WFM to PB OUT 2. Then adjust VR7702 so that the signal level is within the specification.



### <Pr Adjustment>

- Connect a WFM to PR OUT 1. Then adjust VR3701 so that the signal level is within the specification.
- Connect a WFM to PR OUT 2. Then adjust VR7701 so that the signal level is within the specification.



## 5-2-16. REC Component Y-Pb, Y-Pr Timing Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	0+/-10ns	
TP	VIDEO/Y OUT 1 PB OUT 1	VIDEO/Y OUT 2 PB OUT 2
Adjust	VR3305(V1 PB TMG) VR3306(V1 PR TMG)	VR7305(V2 PB TMG) VR7306(V2 PR TMG)
Input	VIDEO/Y IN 1, PB IN1, PR IN1: CMPNT BOWTIE	VIDEO/Y IN 2, PB IN2, PR IN2: CMPNT BOWTIE
Mode	EE	
Tape	-----	
M.EQ	WFM	

- Set SETUP MENU as shown below.

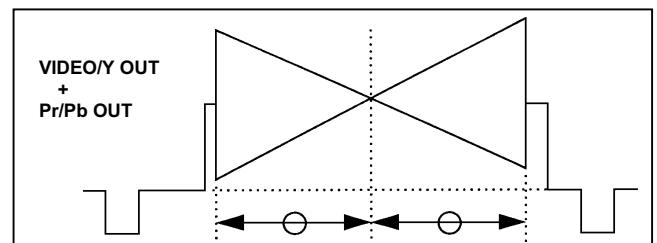
671 : V OUT SEL : CMPNT  
670 : V IN SEL : CMPNT

### <Y-Pb Adjustment>

- Connect a WFM to VIDEO/Y OUT 1 and PB OUT 1 (component Y/C timing measurement Mode) . Then adjust VR3305 so that the signal timing is within the specification.
- Connect a WFM to VIDEO/Y OUT 2 and PB OUT 2 (component Y/C timing measurement Mode) . Then adjust VR7305 so that the signal timing is within the specification.

### <Y-Pr Adjustment>

- Connect a WFM to VIDEO/Y OUT 1 and Pr OUT 1 (component Y/C timing measurement Mode) . Then adjust VR3306 so that the signal timing is within the specification.
- Connect a WFM to VIDEO/Y OUT 2 and Pr OUT 2 (component Y/C timing measurement Mode) . Then adjust VR7306 so that the signal timing is within the specification.

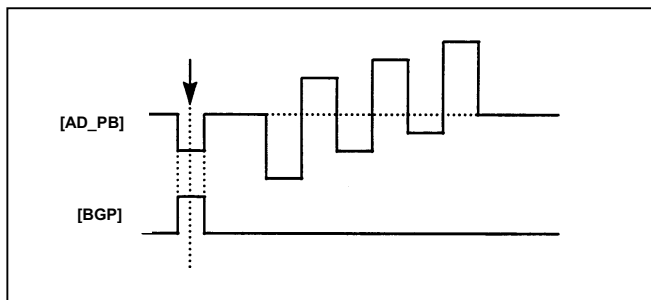




## 5-2-17. RSTW Adjustment

<b>Board</b>	AUDIO_VIDEO	
<b>Spec</b>	0+/-100ns	
<b>TP</b>	VTR1	VTR2
	TP3401 (V1_BGP) TP3702 (AD_PB)	TP7401 (V2_BGP) TP7702 (AD_PB)
<b>Adjust</b>	VR3401 (RSTW)	VR7401 (RSTW)
<b>Input</b>	VIDEO/Y IN 1: 100% color bar	VIDEO/Y IN 2: 100% color bar
<b>Mode</b>	EE	
<b>Tape</b>	-----	
<b>M.EQ</b>	Oscilloscope	

1. Set SETUP MENU as shown below.  
670 : V IN SEL : CMPST
2. Connect an Oscilloscope to TP3702 [PB] and TP3401 [BGP]. Then adjust VR3401 so that the signal timing is within the specification.
3. Connect an Oscilloscope to TP7702 [PB] and TP7401 [BGP]. Then adjust VR7401 so that the signal timing is within the specification.

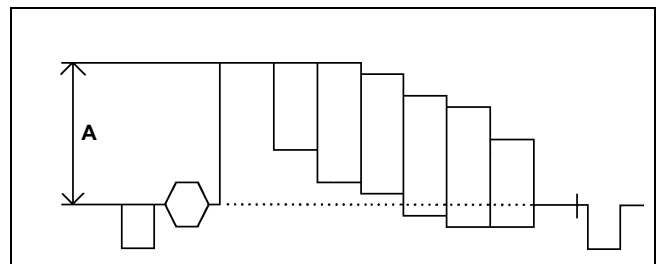


**NOTE:** When these signals aren't synchronized, adjust VR3403 (VTR1) and VR7403 (VTR2) to be synchronized.

## 5-2-18. REC Composite Y Input Level Adjustment

<b>VTR</b>	VTR1	VTR2
<b>Board</b>	AV SUB	AUDIO_VIDEO
<b>Spec</b>	A = 0.7V +/- 1%	
<b>TP</b>	VIDEO/Y OUT 1	VIDEO/Y OUT 2
<b>Adjust</b>	H08 : CPS Y LEV	
<b>Input</b>	VIDEO/Y IN 1: 100% color bar	VIDEO/Y IN 2: 100% color bar
<b>Mode</b>	EE	
<b>Tape</b>	-----	
<b>M.EQ</b>	WFM	

1. Set SETUP MENU as shown below.  
671 : V OUT SEL : CMPST  
670 : V IN SEL : CMPST
2. Connect a WFM to VIDEO/Y OUT 1. Then adjust the H08 : CPS LEV so that the signal level A is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust the H08 : CPS LEV so that the signal level A is within the specification.





## 5-2-19. Chroma Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	As shown below	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	H10 : AXIS, H09 : CPS C LEV	
Input	VIDEO/Y IN 1: 100% color bar	VIDEO/Y IN 2: 100% color bar
Mode	EE	
Tape	-----	
M.EQ	Vector scope	

- Set SETUP MENU and Encoder VRs as shown below.

[MENU]

671 : V OUT SEL : CMPST

670 : V IN SEL : CMPST

[Encoder VRs]

VIDEO LEV : Click point

HUE : Click point

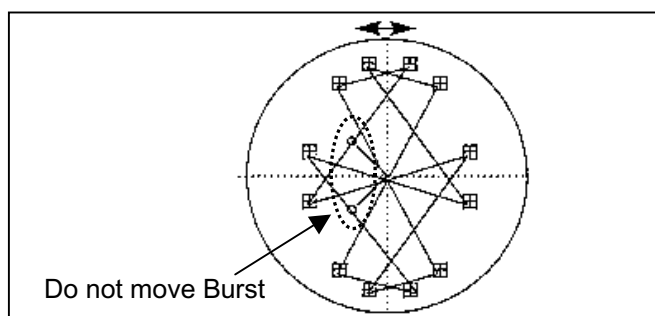
CHROMA LEV : Click point

### <Adjustment for VTR1 side>

- Open the VIDEO ADJUST MENU in SERVICE MENU.
- Connect a Vector scope to VIDEO/Y OUT 1. Then adjust the H10 : AXIS, H09 : CPS C LEV so that the dots is within the each inner boxes.
- If it does not meet specification by VIDEO ADJUST MENU, adjust VRs as follows.  
VR3403 (AXIS) [AUDIO VIDEO Board]  
VR3301 (DEC PB LEV)  
VR3302 (DEC PR LEV)

### <Adjustment for VTR2 side>

- Open the VIDEO ADJUST MENU in SERVICE MENU.
- Connect a Vector scope to VIDEO/Y OUT 1. Then adjust the H10 : AXIS, H09 : CPS C LEV so that the dots is within the each inner boxes.
- If it does not meet specification by VIDEO ADJUST MENU, adjust VRs as follows.  
VR7403 (AXIS) [AUDIO VIDEO Board]  
VR7301 (DEC PB LEV)  
VR7302 (DEC PR LEV)



## 5-2-20. Y Signal Timing Adjustment

VTR	VTR1	VTR2
Board	AUDIO_VIDEO	
Spec	A = Ref +/- 10nsec	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR3801(V1 SYNC 0)	VR7801(V2 SYNC 0)
Input	VIDEO/Y IN 1: 12.5T Pulse & Bar	VIDEO/Y IN 2: 12.5T Pulse & Bar
Mode	EE	
Tape	-----	
M.EQ	Oscilloscope	

- Set SETUP MENU and Encoder VRs as shown below.

671 : V OUT SEL : CMPST

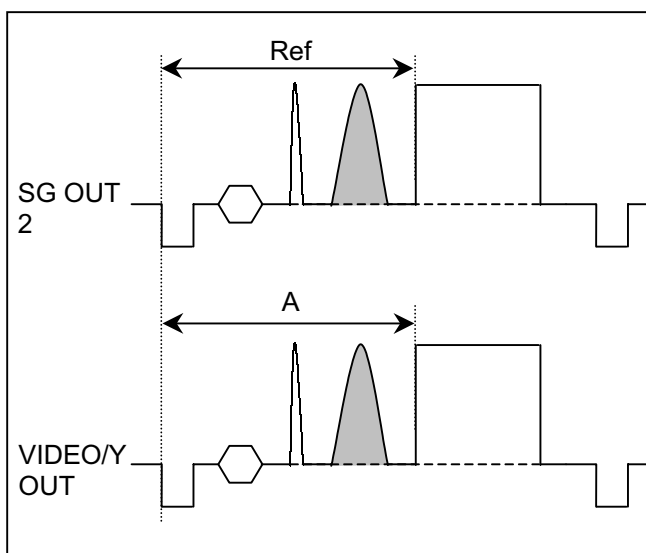
670 : V IN SEL : CMPST

### <Adjustment for VTR1 side>

- Connect Signal Generator out 1 to VIDEO/Y IN1.
- Connect Oscilloscope to VIDEO/Y OUT1 and Signal generator out 2.
- Adjust VR3801 so that the signal timing (A) is within the specification.

### <Adjustment for VTR2 side>

- Connect Signal Generator out 1 to VIDEO/Y IN2.
- Connect Oscilloscope to VIDEO/Y OUT2 and Signal generator out 2.
- Adjust VR7801 so that the signal timing (A) is within the specification.





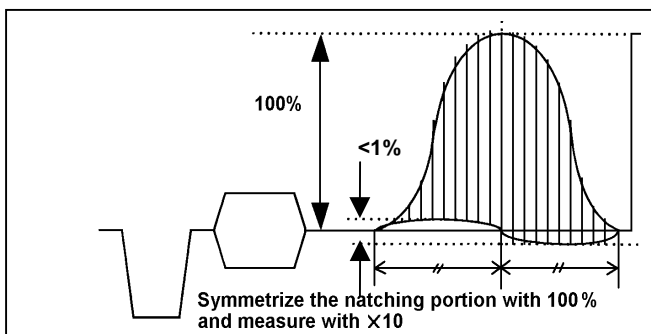
## 5-2-21. REC Composite Y/C Timing Adjustment

VTR	VTR1	VTR2
Board	AV SUB	AUDIO_VIDEO
Spec	0 +/- 10ns	
TP	VIDEO/Y OUT 1	VIDEO/Y OUT 2
Adjust	VR3003 (V1_CPS_DELAY)	VR7002 (V1_CPS_DELAY)
Input	VIDEO/Y IN 1: 12.5T Pulse&bar	VIDEO/Y IN 2: 12.5T Pulse&bar
Mode	EE	
Tape	-----	
M.EQ	WFM	

1. Open the VIDEO ADJUST MENU in SERVICE MENU.

671 : V OUT SEL : CMPST  
670 : V IN SEL : CMPST

2. Connect a WFM to VIDEO/Y OUT 1. Then adjust VR3003 so that the signal timing is within the specification.
3. Connect a WFM to VIDEO/Y OUT 2. Then adjust VR7002 so that the signal timing is within the specification.



**NOTE:** Confirm the Chroma adjustment after this adjustment.



## 6. LCD PANEL

### Preparation

1. Before this adjustment, The Video section adjustment must be completed.
2. The Encoder VRs (VIDEO LEV, SET UP, HUE and CHROMA LEV) must be in center Click position. (Both VTR side)
3. Perform LCD PANEL adjustment, more than 30 minutes after turning power ON.
4. Set the SW and VR as follows.  
 BACKLIGHT : LIGHT  
 BRIGHTNESS : Center position

### 6-1. OSC Frequency Adjustment

<b>Board</b>	Display Control
<b>Spec</b>	102kHz +/- 2kHz
<b>TP</b>	TP68301 TP68304 (GND)
<b>Adjust</b>	VR68301
<b>Input</b>	-----
<b>Mode</b>	EJECT
<b>Tape</b>	-----
<b>M.EQ</b>	Frequency counter

1. Connect a Frequency counter to TP68301-TP68304. Then adjust VR68301 so that the Frequency is within the specification.

### 6-2. Picture Adjustment

<b>Board</b>	-----
<b>Spec</b>	-----
<b>TP</b>	LCD PANEL (Visual observation)
<b>Adjust</b>	I10 : LCD DIM I11 : LCD COLOR I12 : HUE
<b>Input</b>	COLOUR BAR, MOVING PICTURE
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM
<b>M.EQ</b>	-----

1. Adjust the service menu "I10, I11 and I12" so that the picture condition on VTR1 and VTR2 is same condition.

**NOTE:** LCD Panel has the angle of the view. For the adjustment, look it from the front.

### 6-3. White Balance Adjustment

<b>Board</b>	LCD unit
<b>Spec</b>	-----
<b>TP</b>	LCD PANEL (Visual observation)
<b>Adjust</b>	R VR, B VR
<b>Input</b>	VIDEO/Y IN : 5 steps 50% Flat-field
<b>Mode</b>	EE
<b>Tape</b>	-----
<b>M.EQ</b>	-----

1. Adjust R VR and B VR so that the white balance on VTR1 and VTR2 is same condition.

**NOTE:** LCD Panel has the angle of the view. For the White balance adjustment, look it from the front.

### 6-4. Line Crawling Adjustment

<b>Board</b>	LCD unit
<b>Spec</b>	-----
<b>TP</b>	LCD PANEL (Visual observation)
<b>Adjust</b>	BURST VR
<b>Input</b>	COLOUR BAR
<b>Mode</b>	PLAY
<b>Tape</b>	VFM3680KM/KL or VFM3480KM
<b>M.EQ</b>	-----

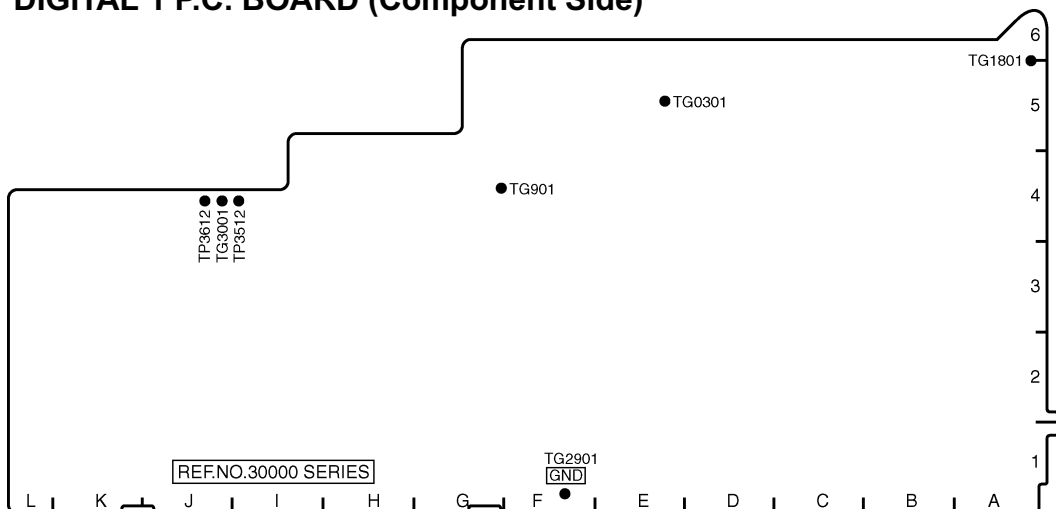
1. Adjust the "BURST VR" so that the Colour picture crawling (Horizontal line noise) becomes disappearing.

**NOTE:** LCD Panel has the corner of the view. In case of the adjustment that look it from the front.

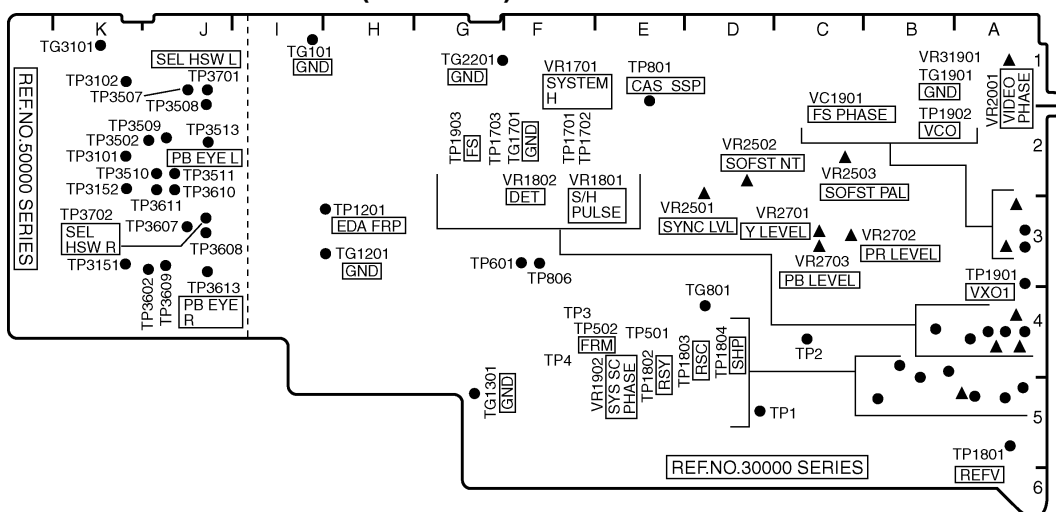


# 7. LOCATION OF TEST POINTS & ADJUSTMENT VR

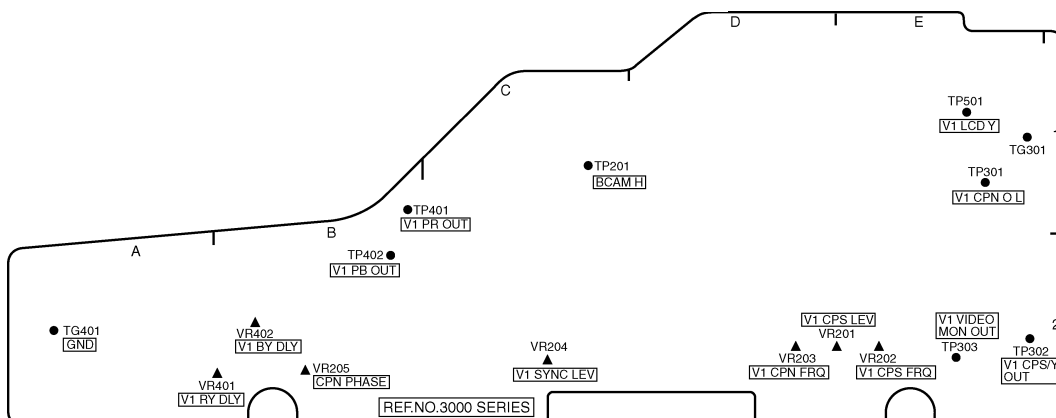
## DIGITAL 1 P.C. BOARD (Component Side)



## DIGITAL1 P.C. BOARD (Foil Side)

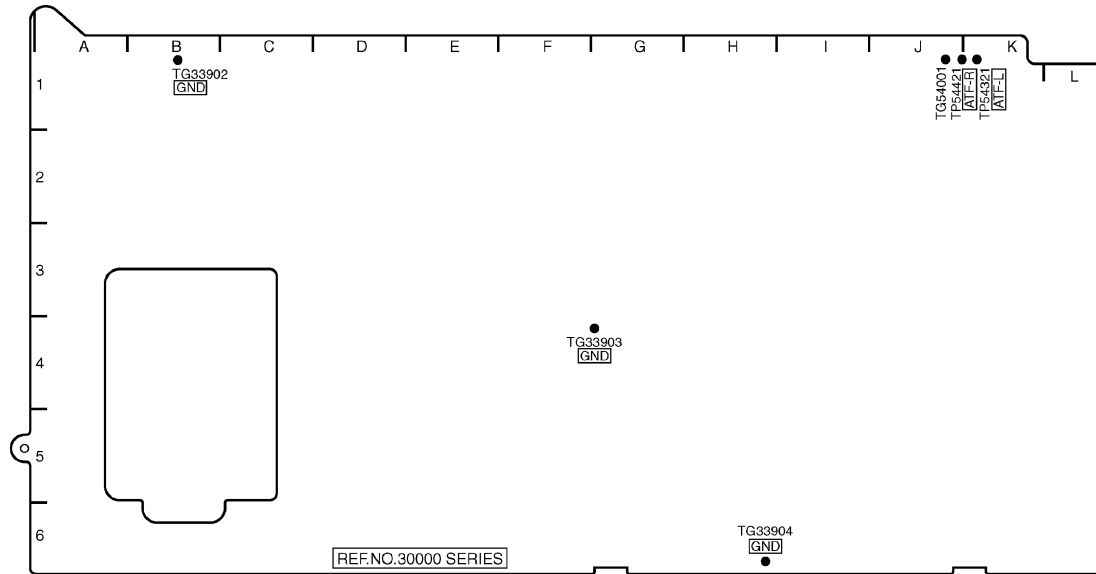


## V OUT 1 P.C. BOARD (Component Side)

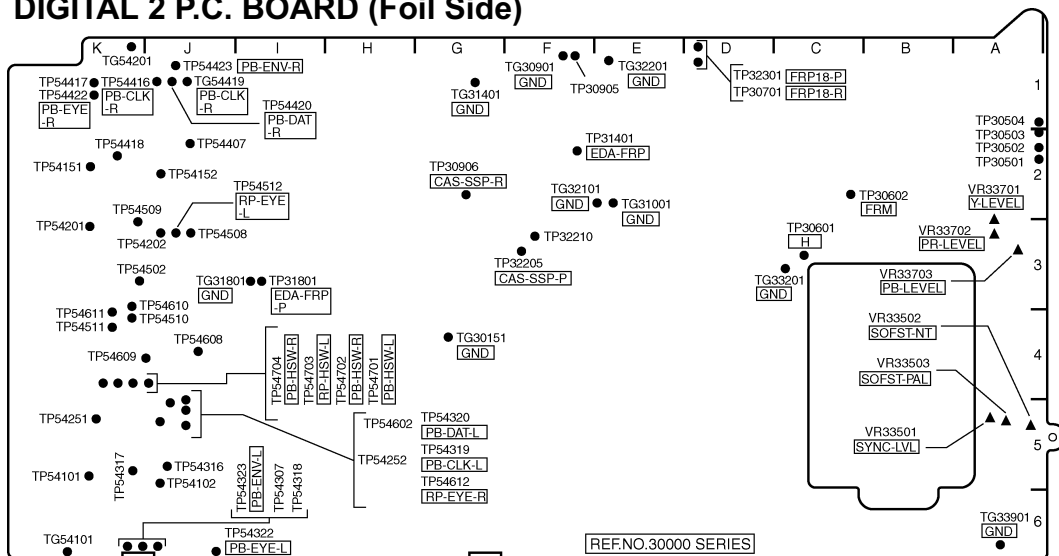




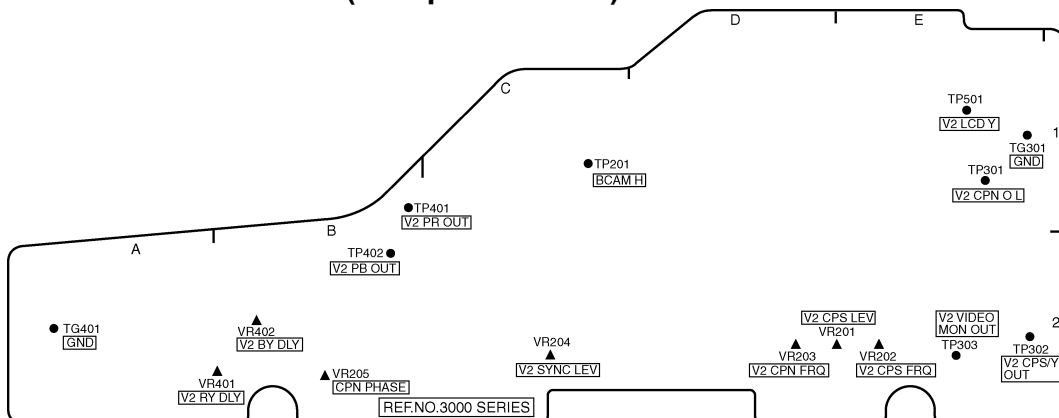
## DIGITAL 2 P.C. BOARD (Component Side)



## DIGITAL 2 P.C. BOARD (Foil Side)

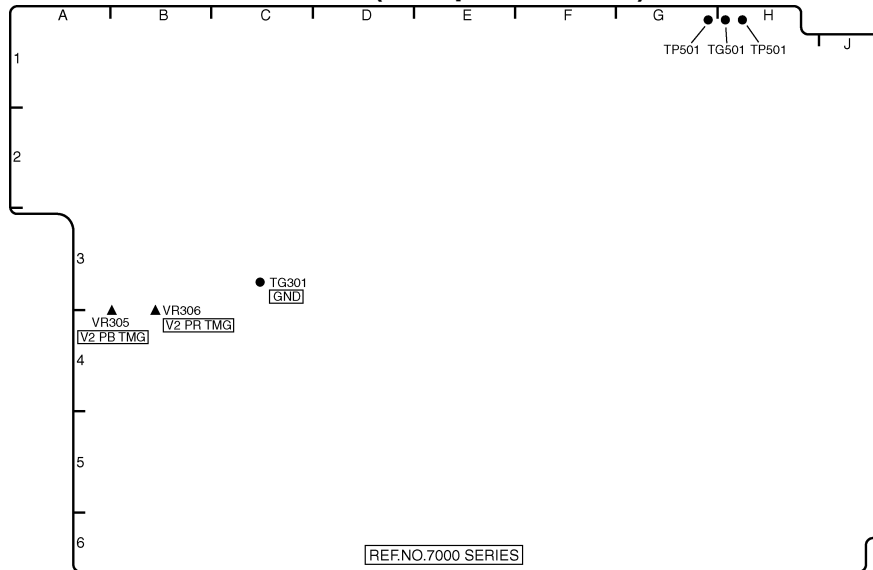


## V OUT 2 P.C. BOARD (Component Side)

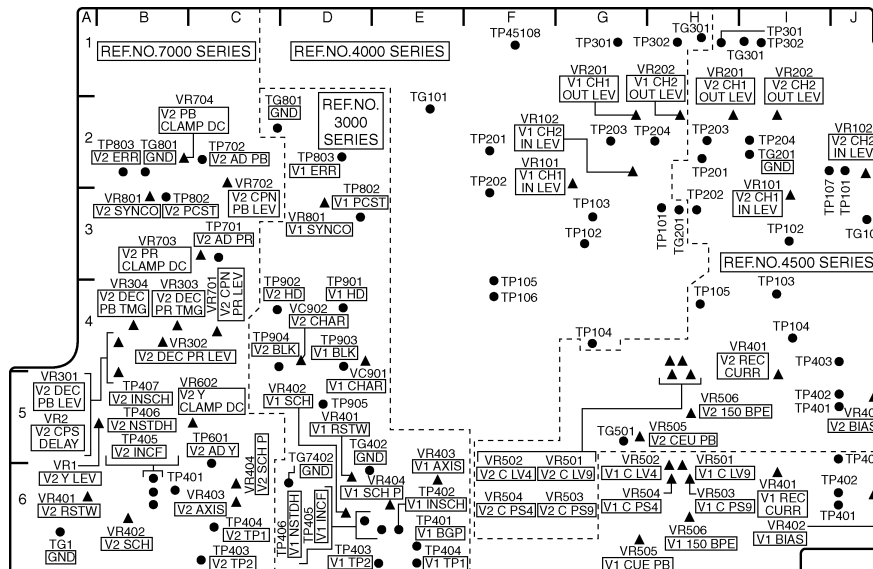




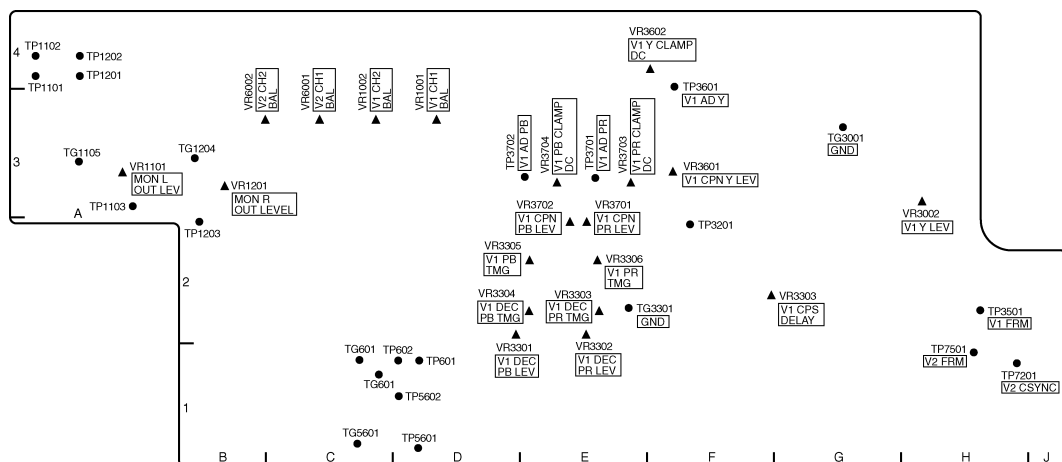
## AUDIO VIDEO P.C. BOARD (Component Side)



## AUDIO VIDEO P.C. BOARD (Foil Side)

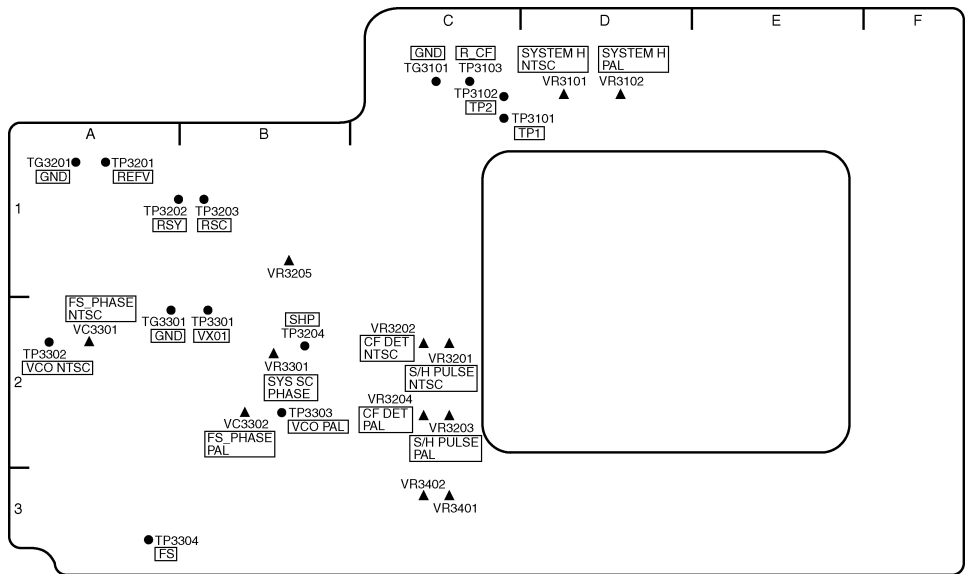


## AD/VD SUB P.C. BOARD (Foil Side)

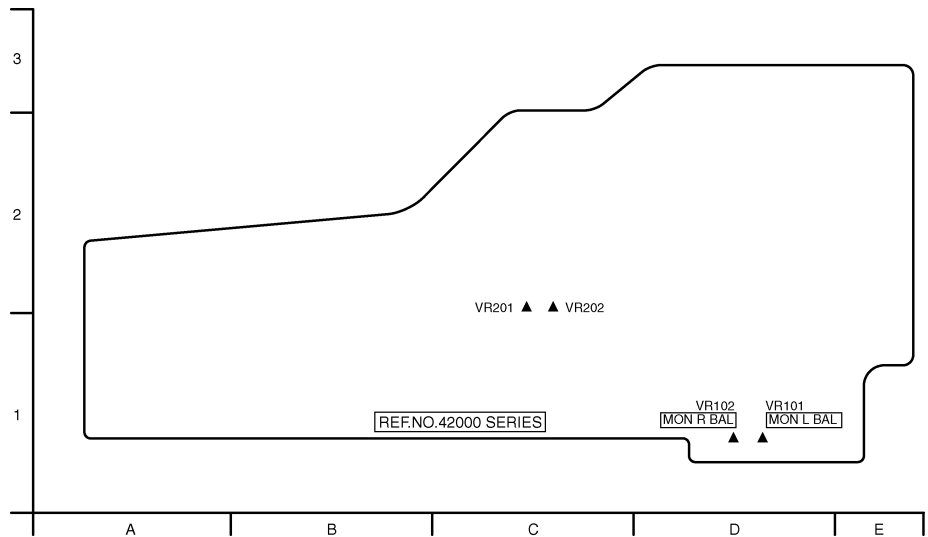




**SG P.C. BOARD (Component Side)**



**AV IO P.C. BOARD (Component Side)**

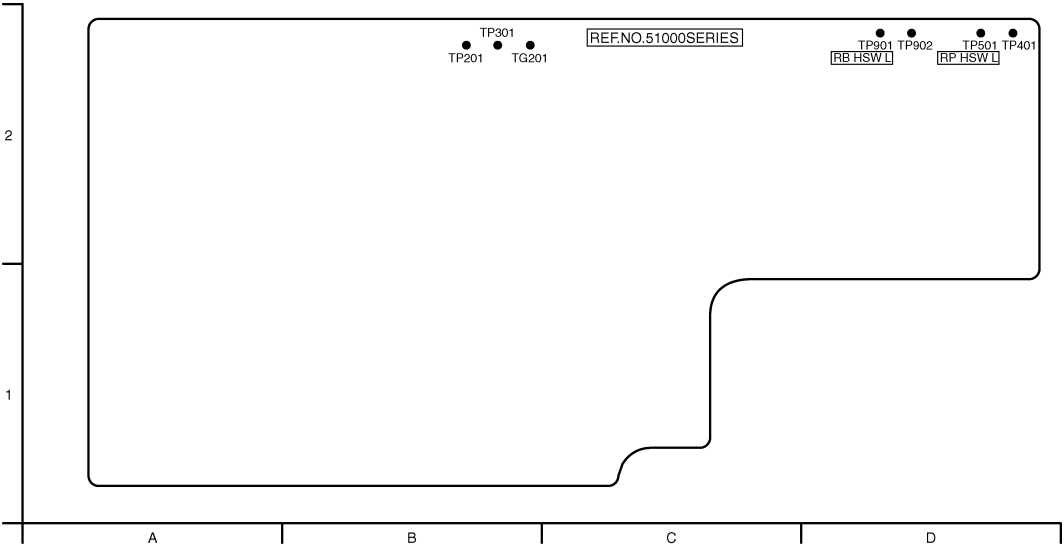


**AV IO P.C. BOARD (Foil Side)**

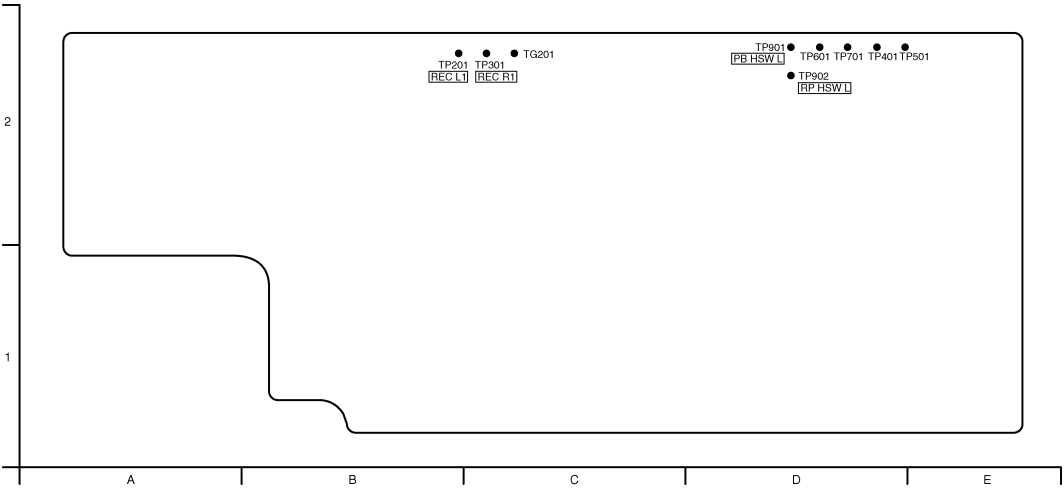




RF AMP 1 P.C. BOARD (Foil Side)

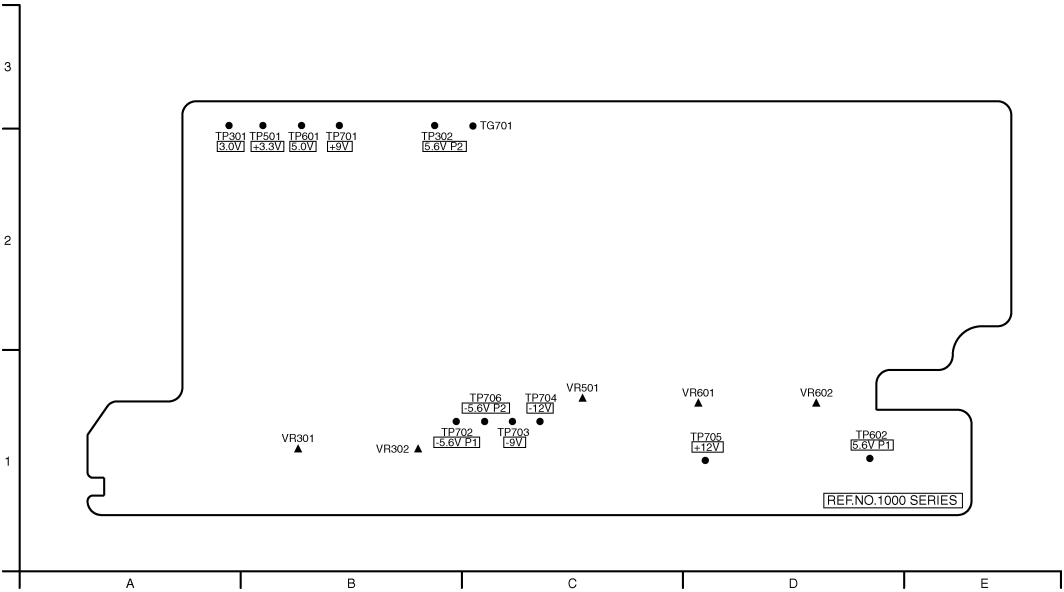


RF AMP 2 P.C. BOARD (Foil Side)

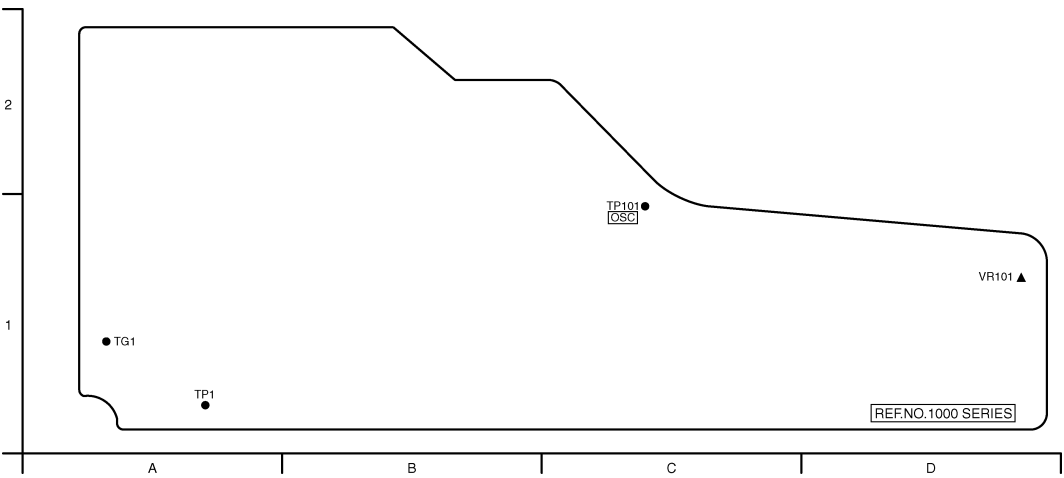




**POWER 1 P.C. BOARD (Component Side)**

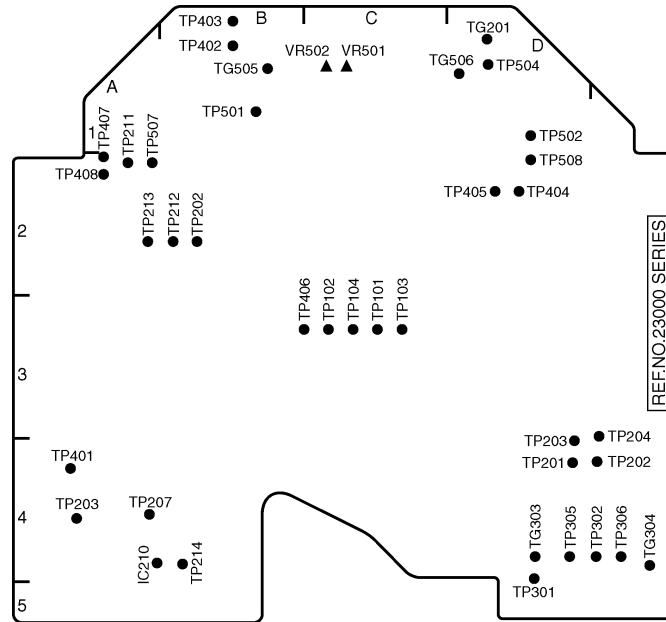


**POWER 2 P.C. BOARD (Component Side)**

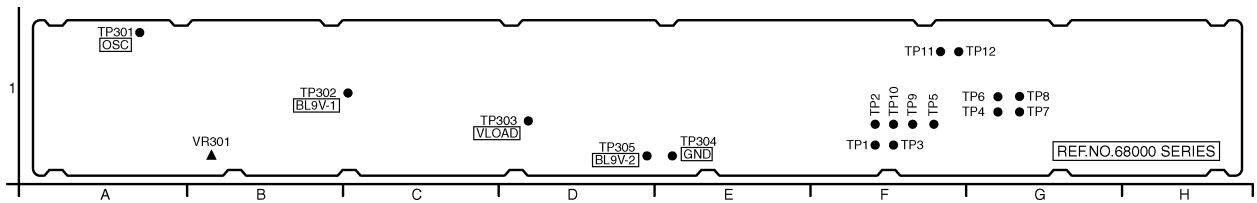




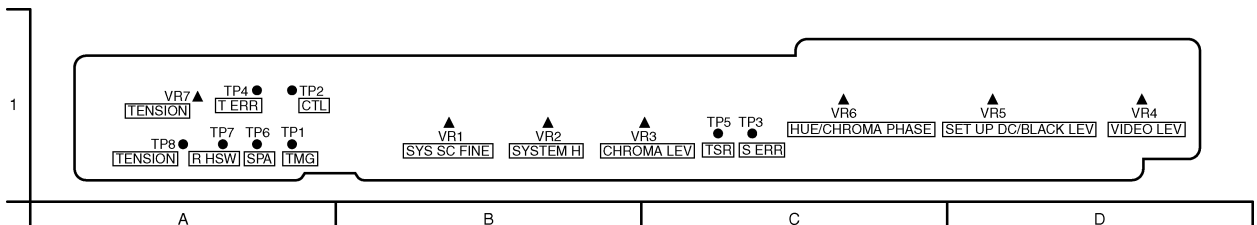
## SERVO DRIVE P.C. BOARD (Component Side)



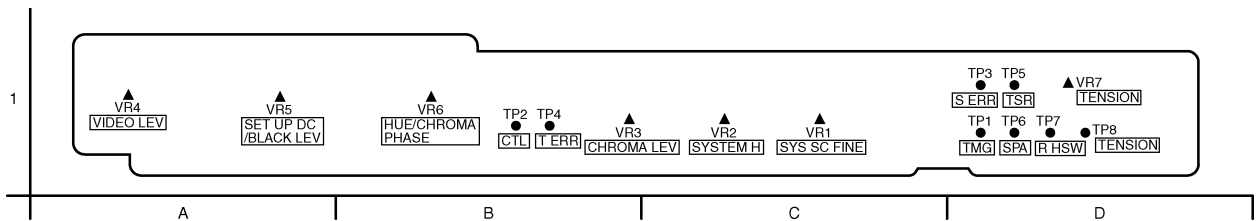
## DISPLAY CONTROL P.C. BOARD (Component Side)



## ENCODER VR 1 P.C. BOARD (Component Side)

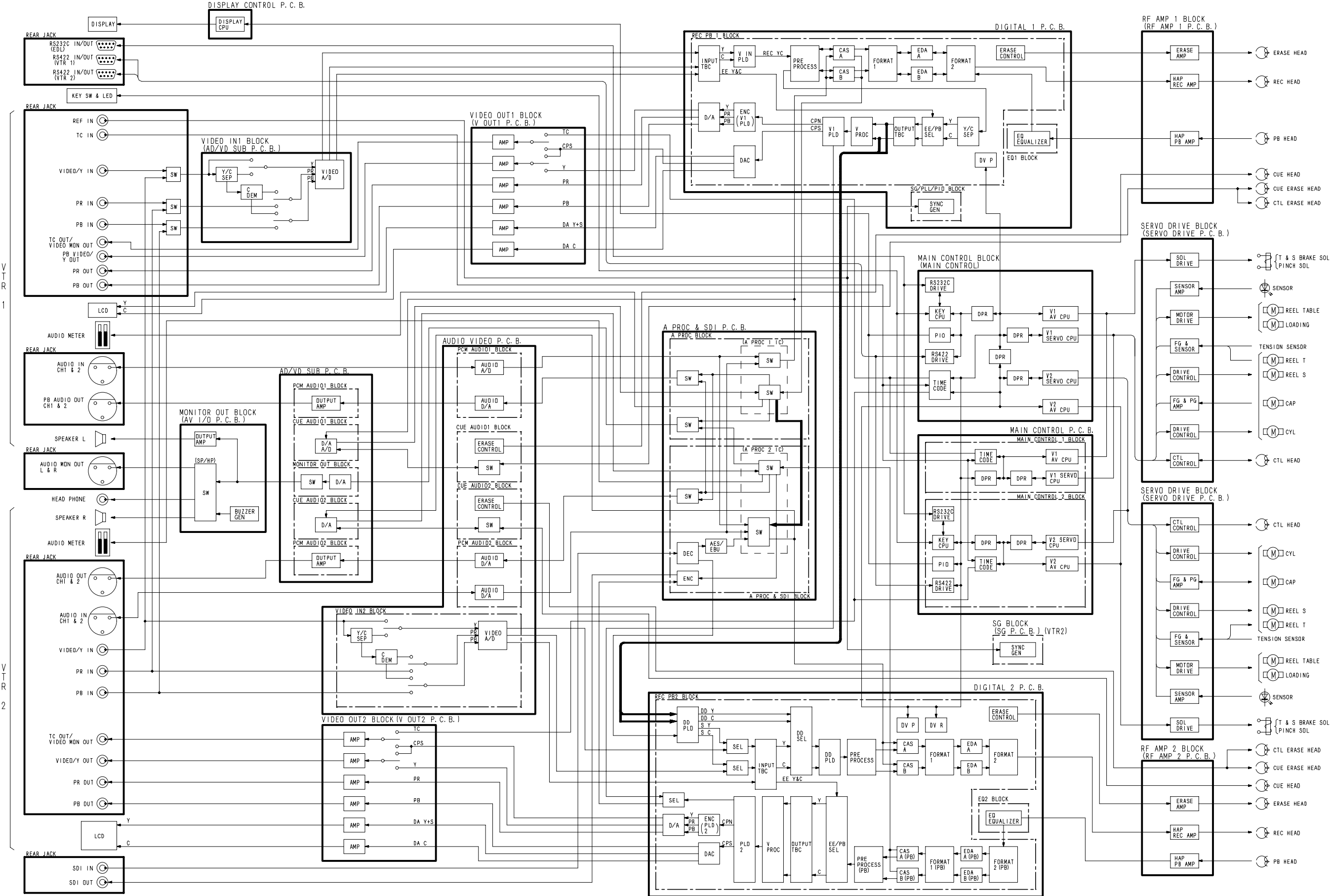


## ENCODER VR 2 P.C. BOARD (Component Side)



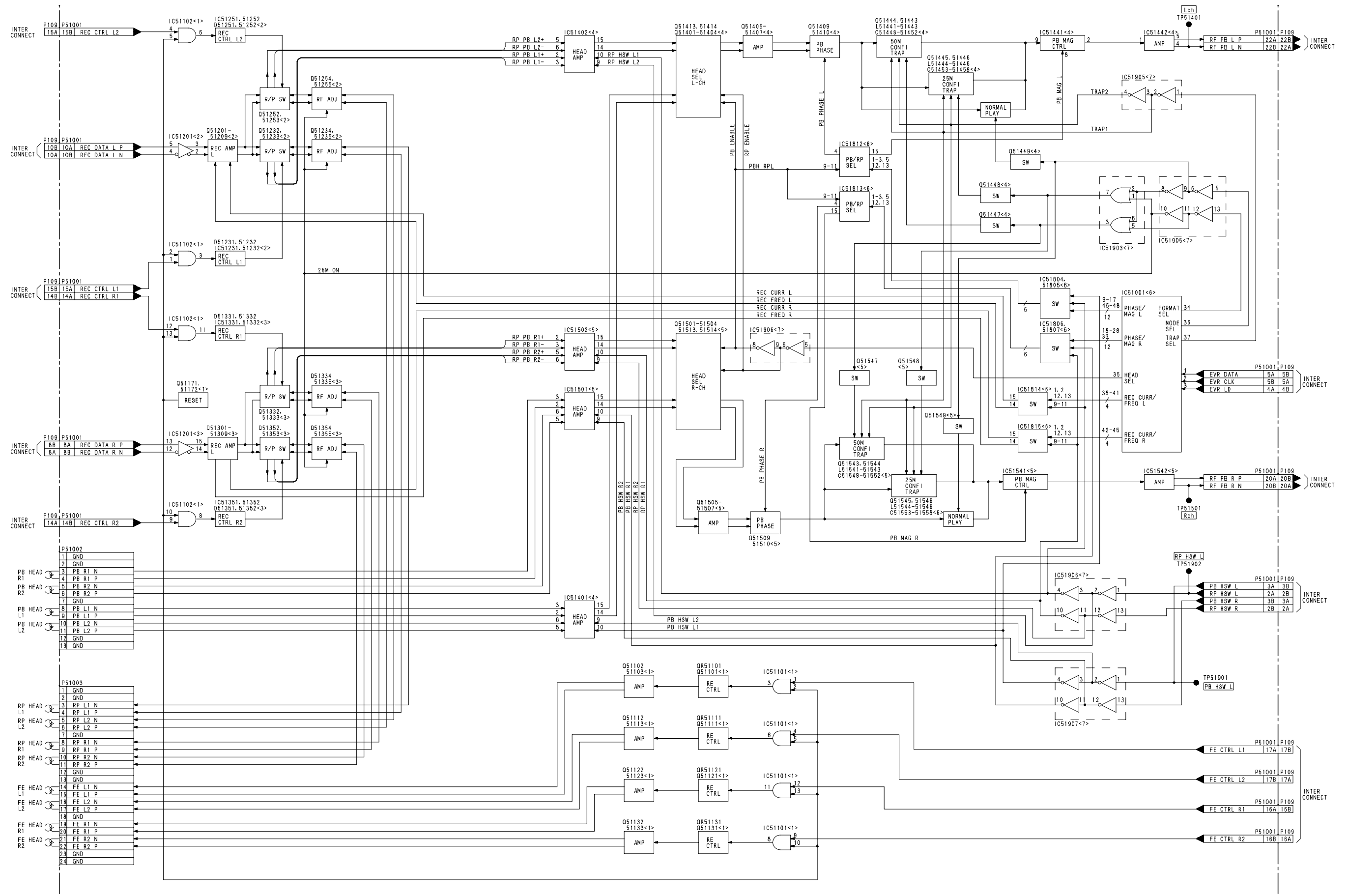


OVERALL BLOCK DIAGRAM



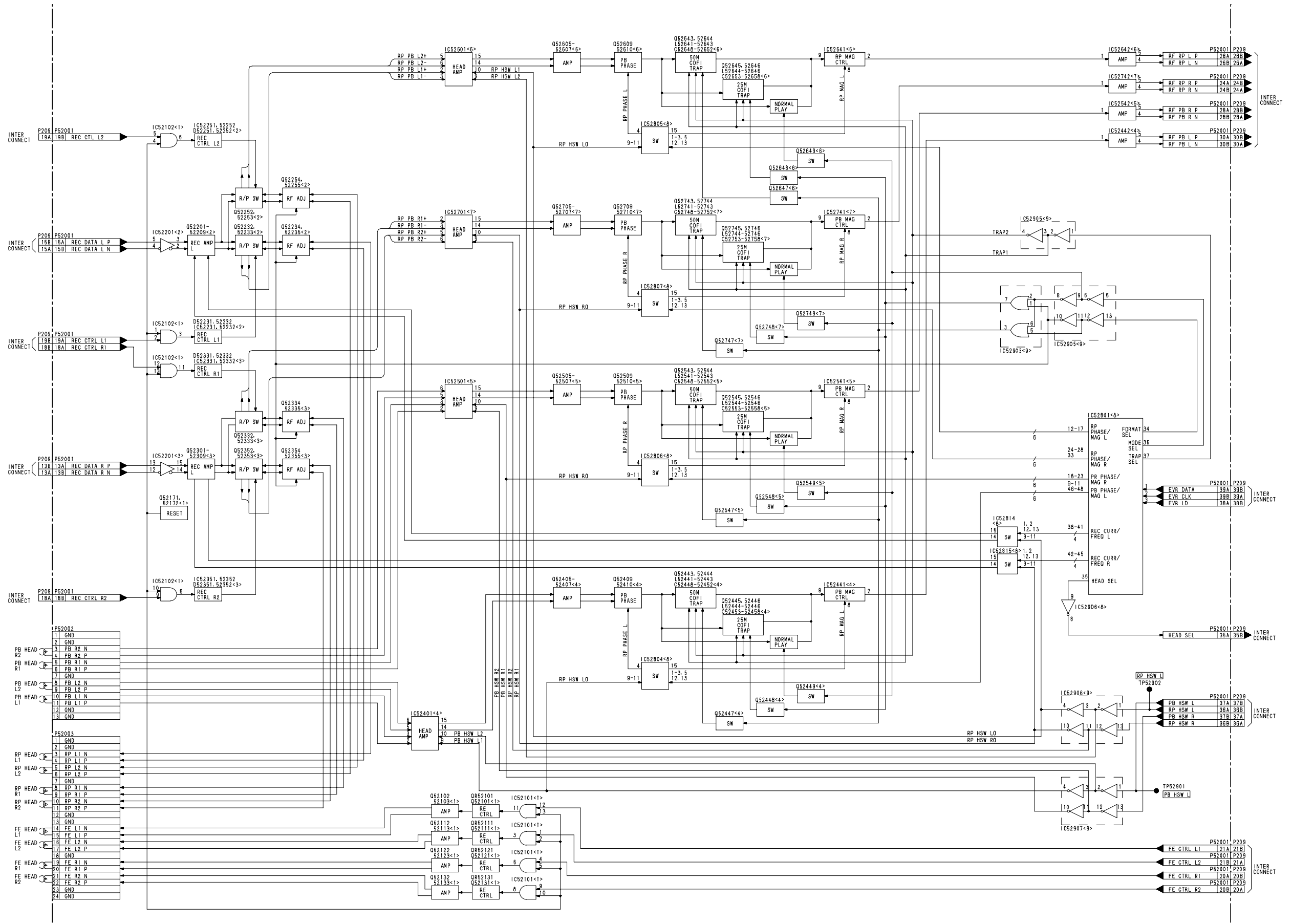


## RF AMP 1 (RF AMP 1) (VTR1) BLOCK DIAGRAM



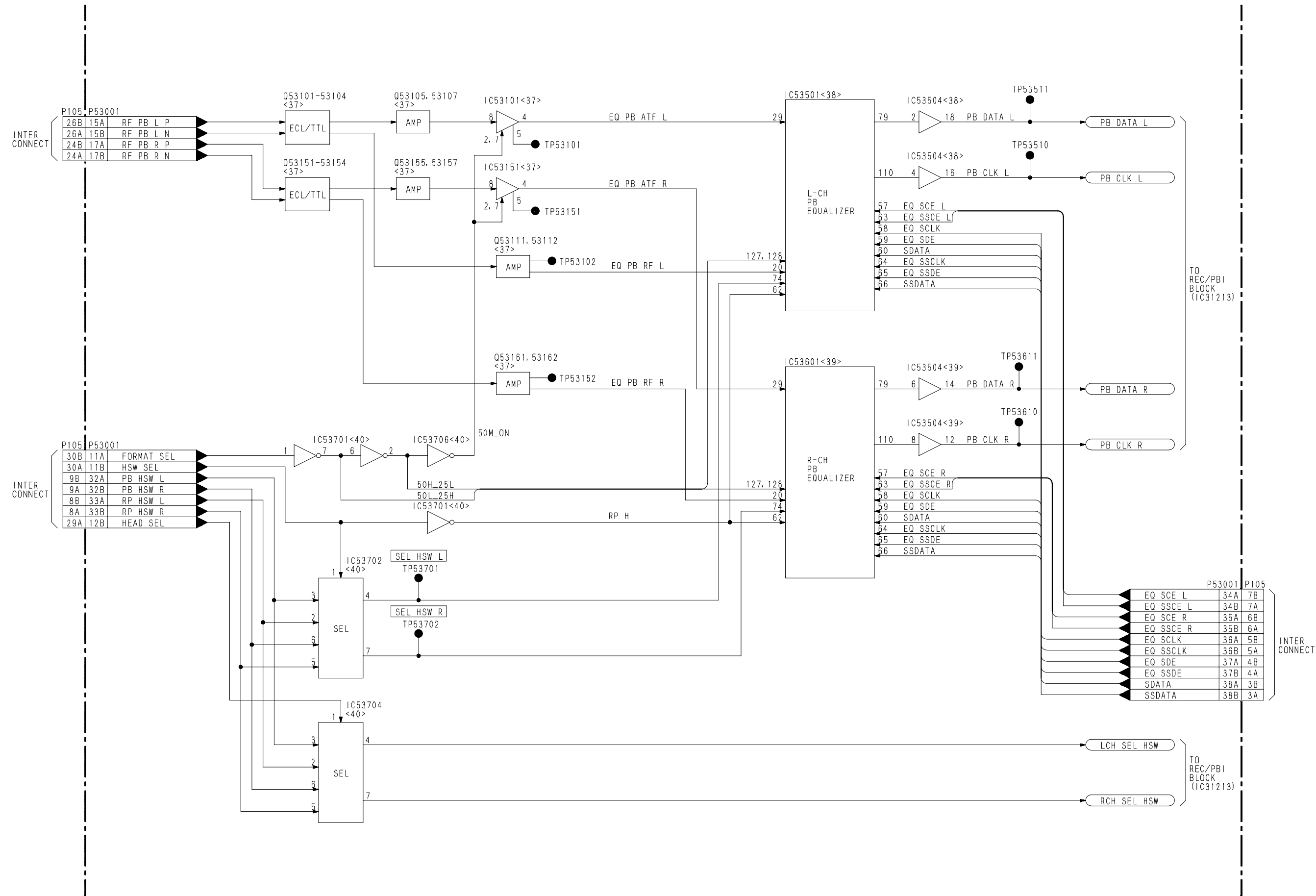


## RF AMP 2 (RF AMP 2) (VTR2) BLOCK DIAGRAM



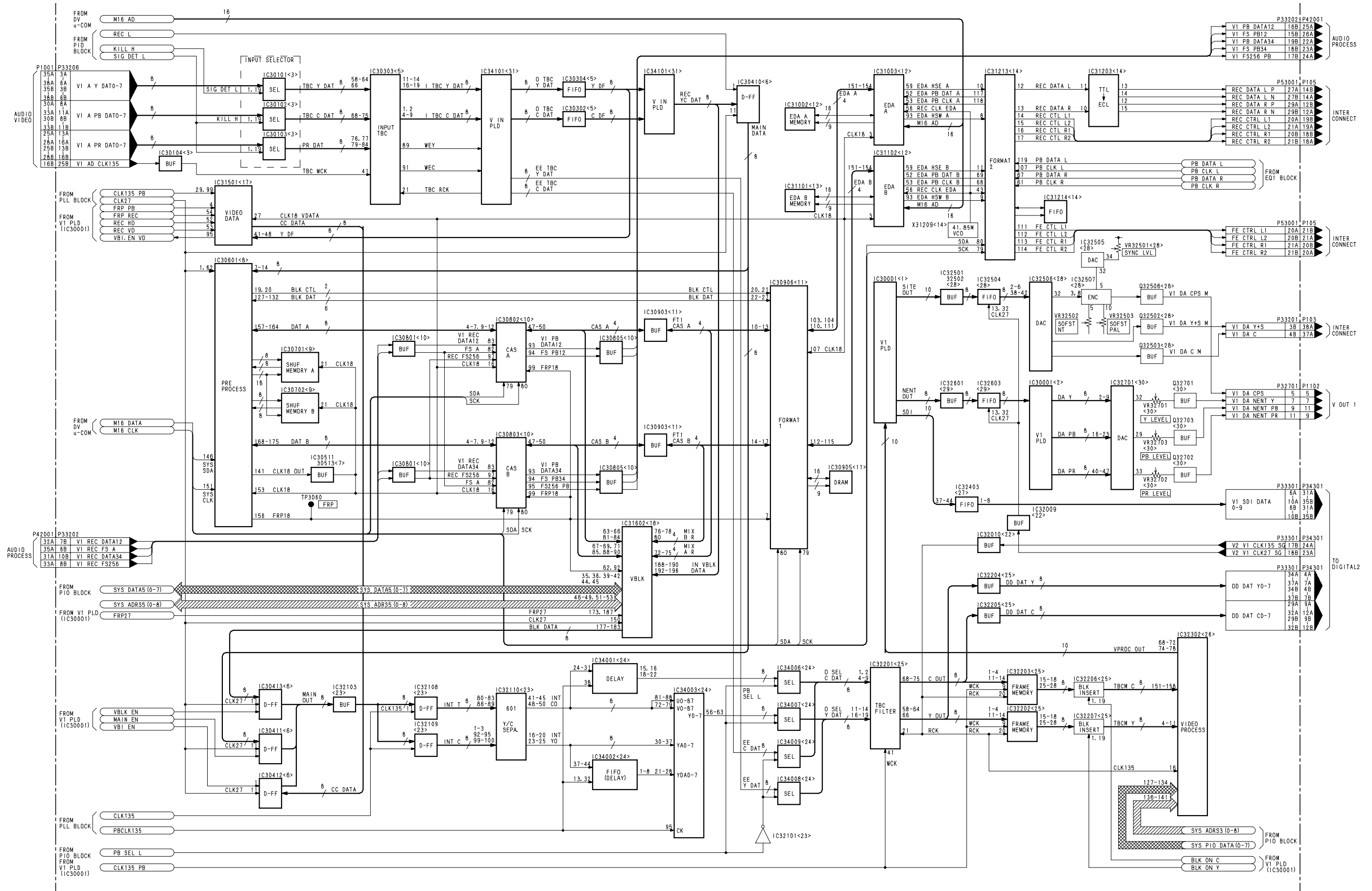


EQ 1 (DIGITAL 1) (VTR1) BLOCK DIAGRAM



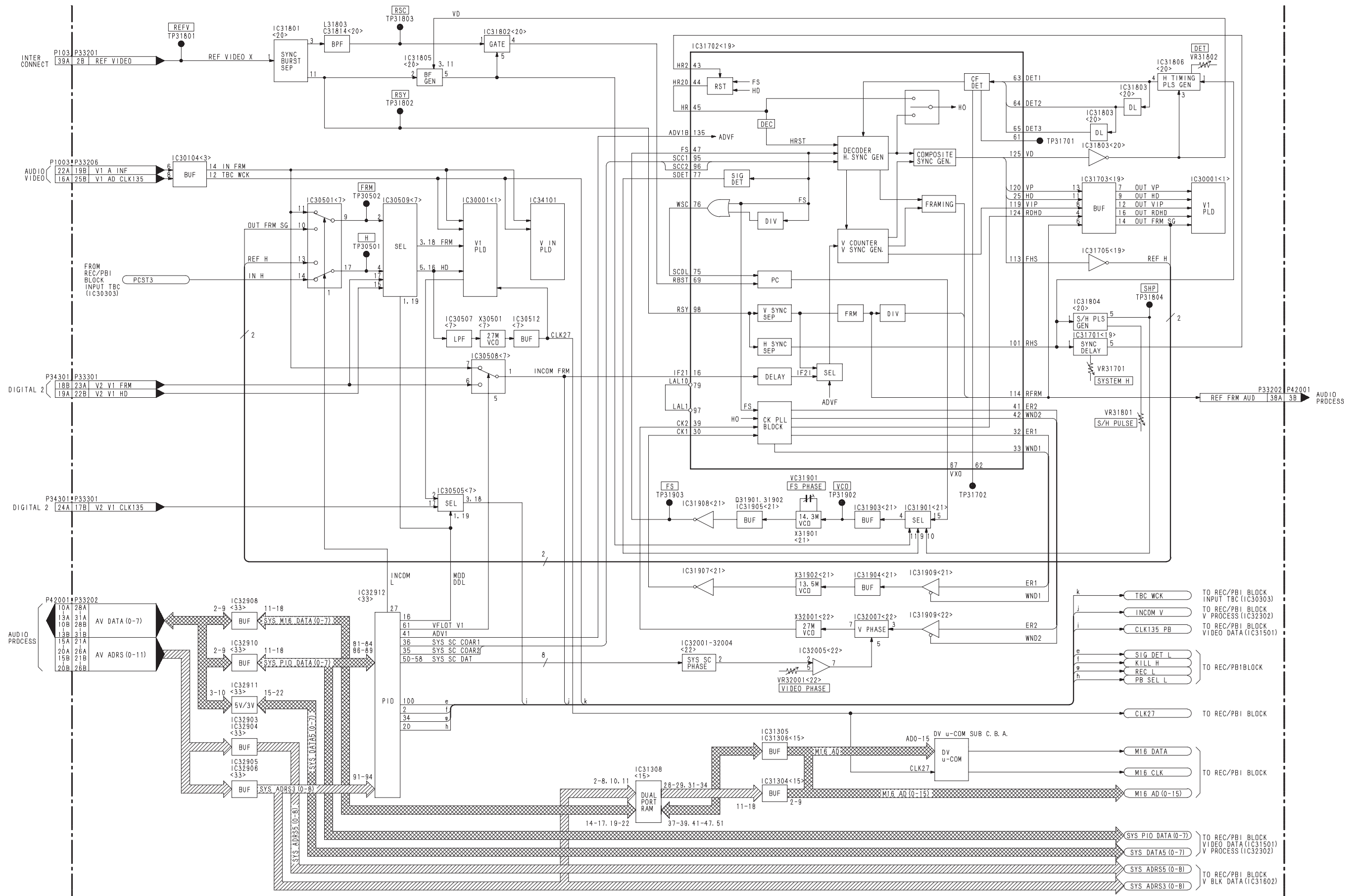


## REC PB 1 (DIGITAL 1) (VTR1) BLOCK DIAGRAM



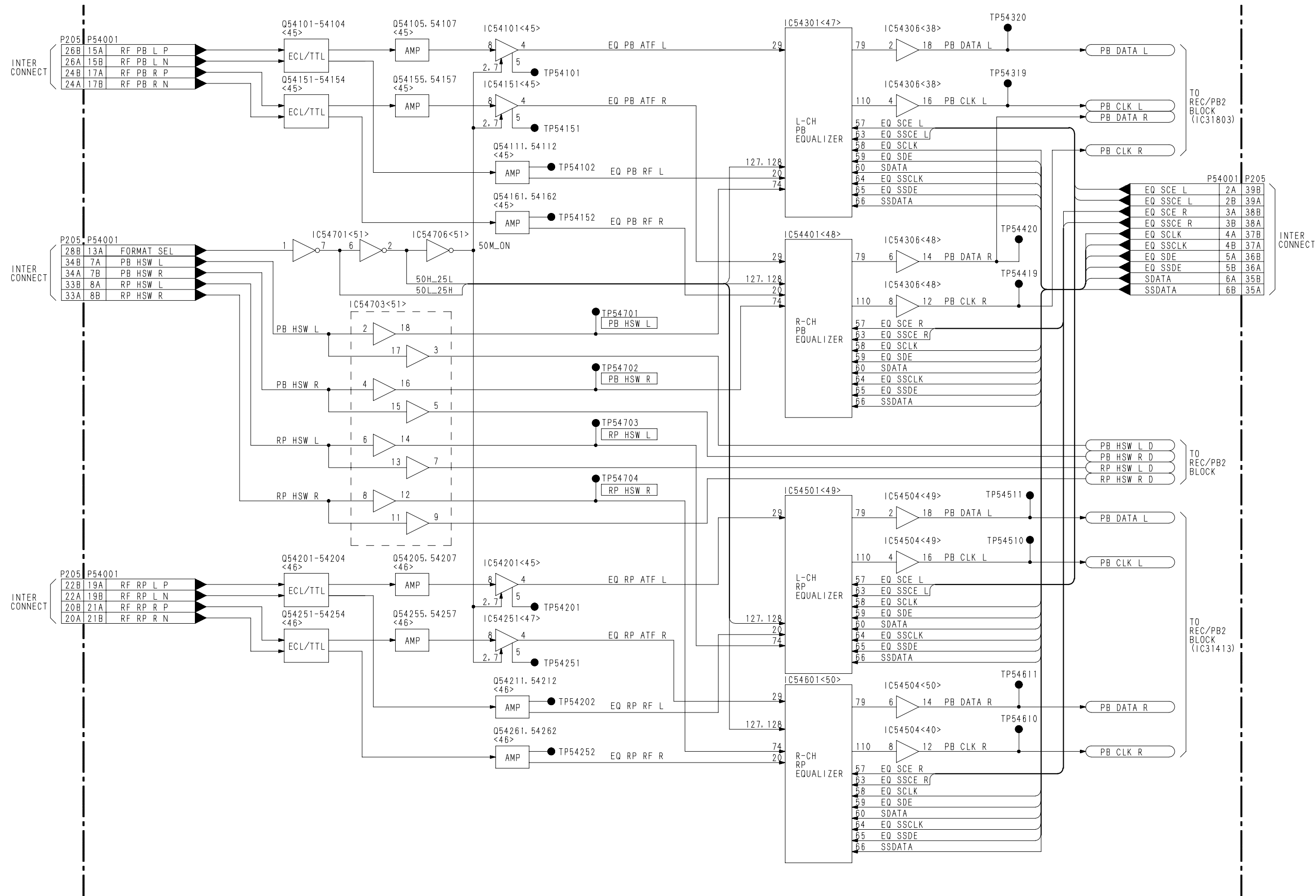


### SG/PLL/PIO (DIGITAL 1) (VTR1) BLOCK DIAGRAM

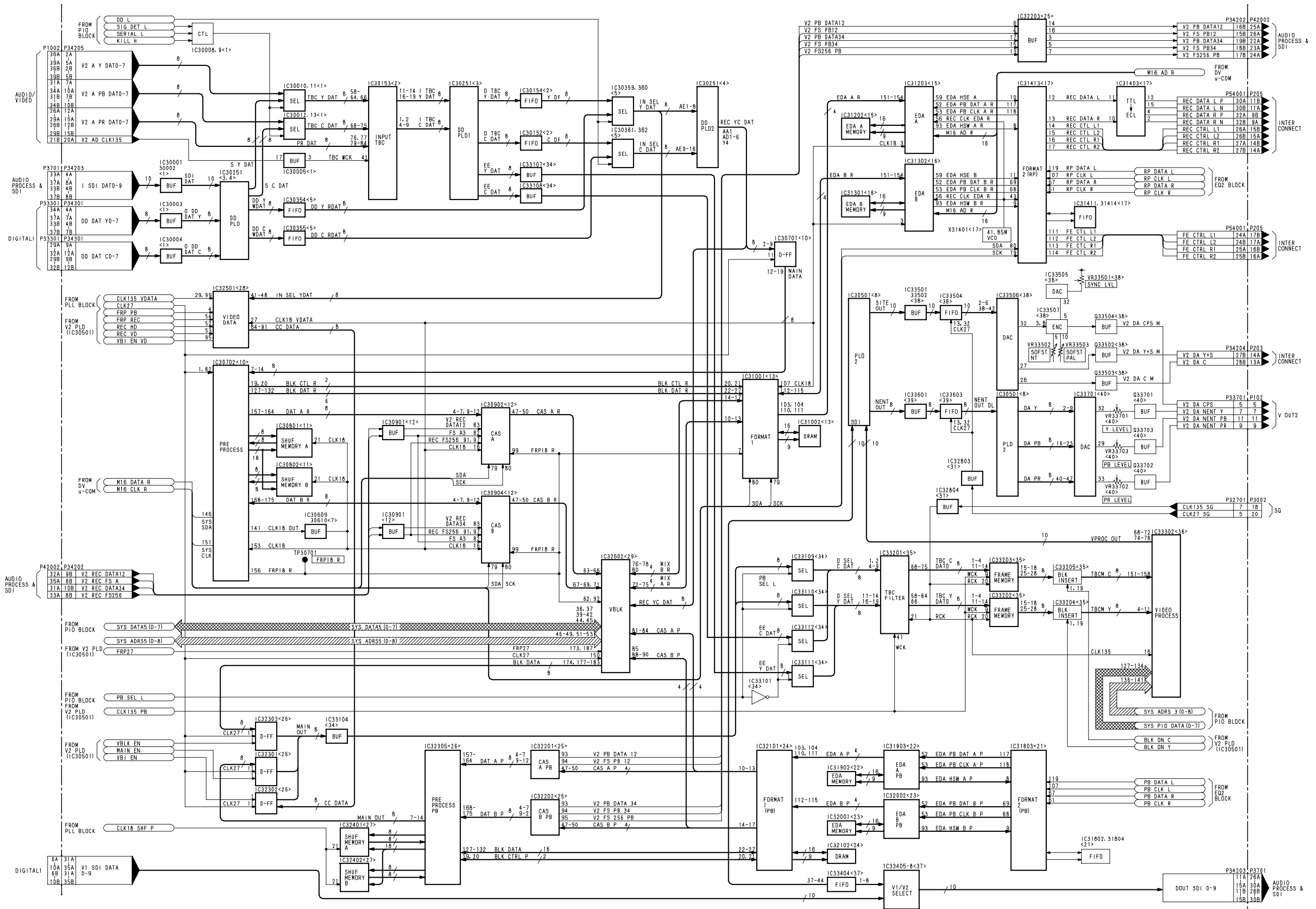




EQ 2 (DIGITAL 2) (VTR2) BLOCK DIAGRAM

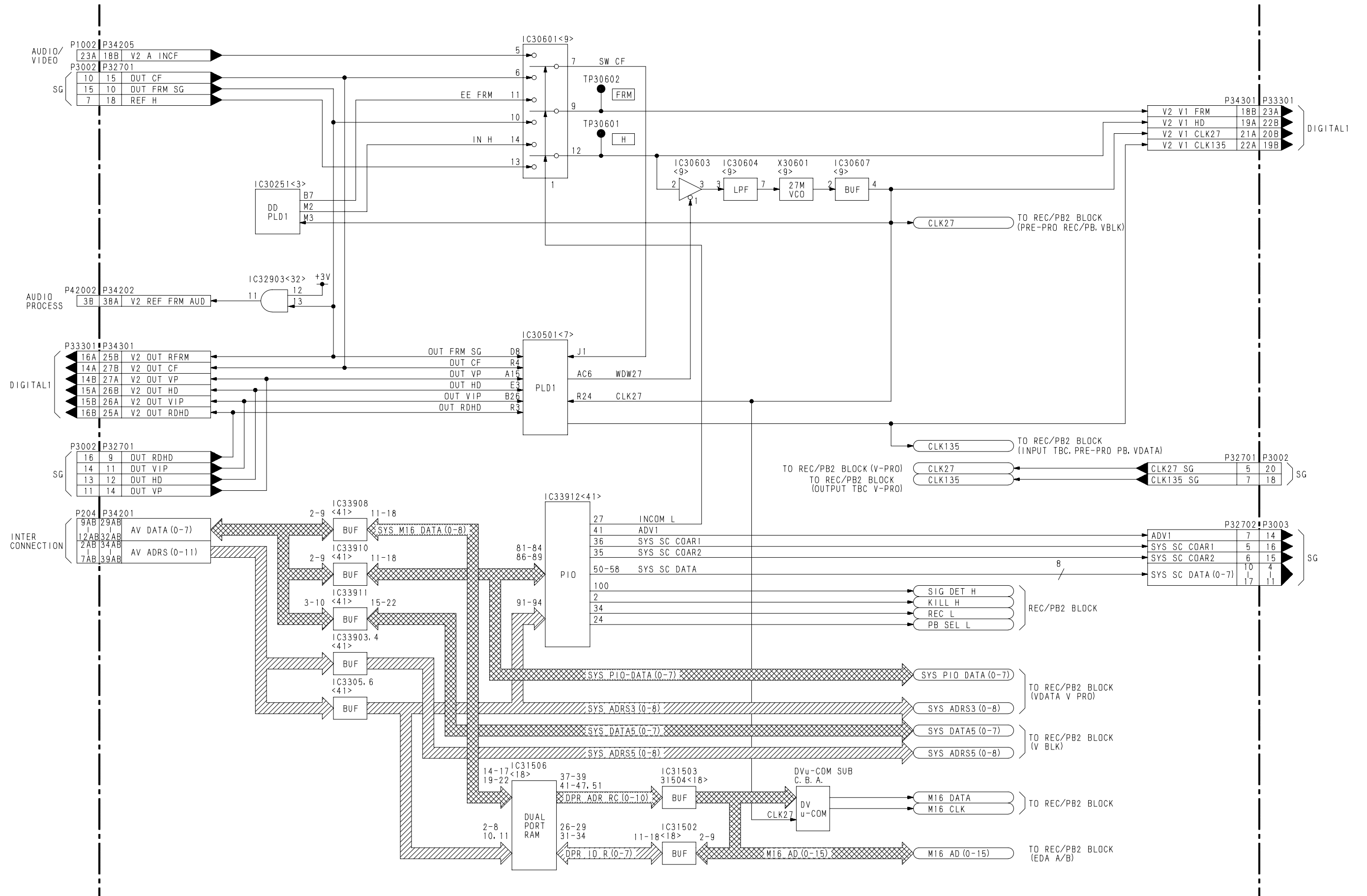




**BLK-8**

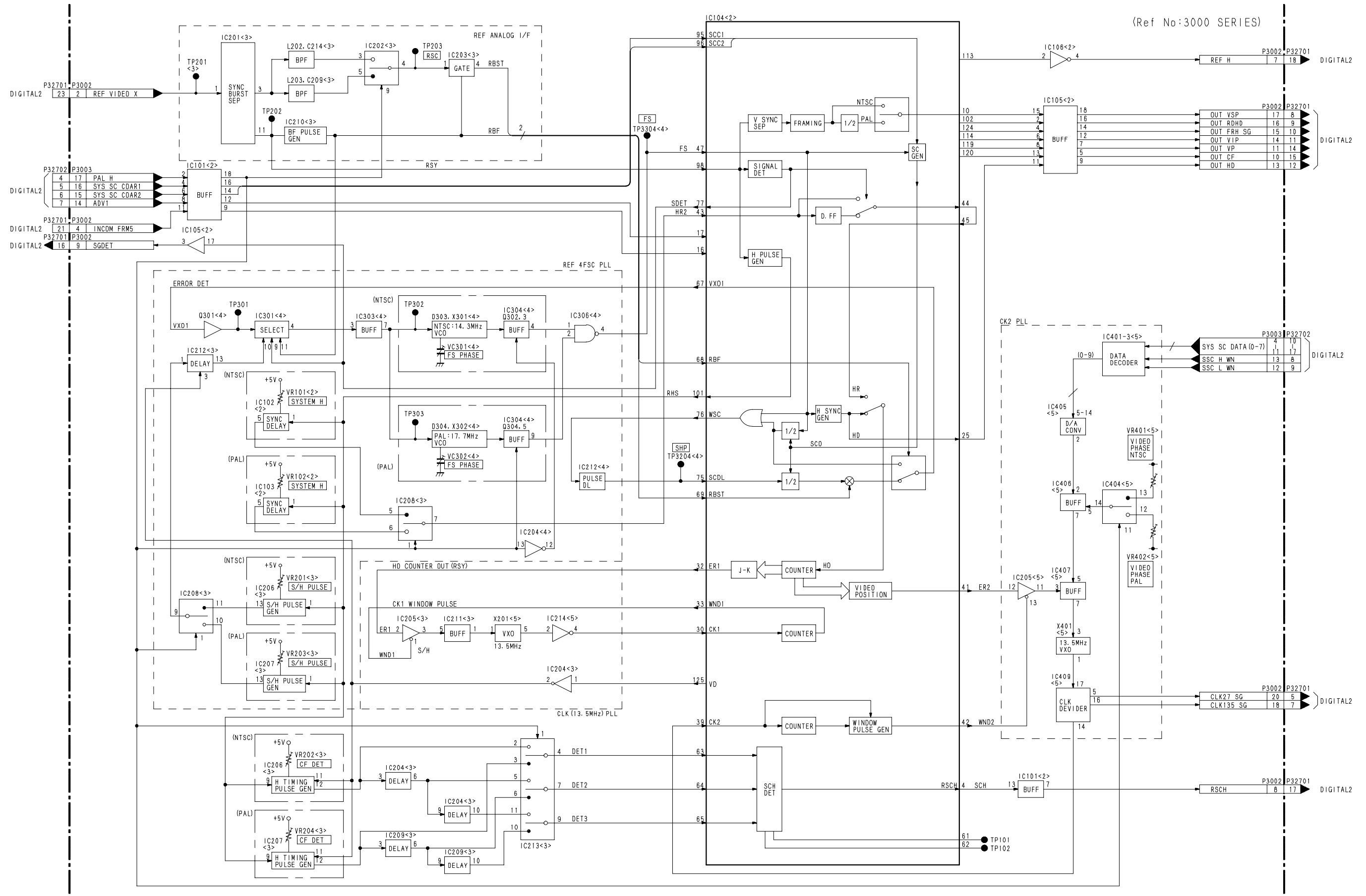


## PLL/PIO (DIGITAL 2) (VTR2) BLOCK DIAGRAM



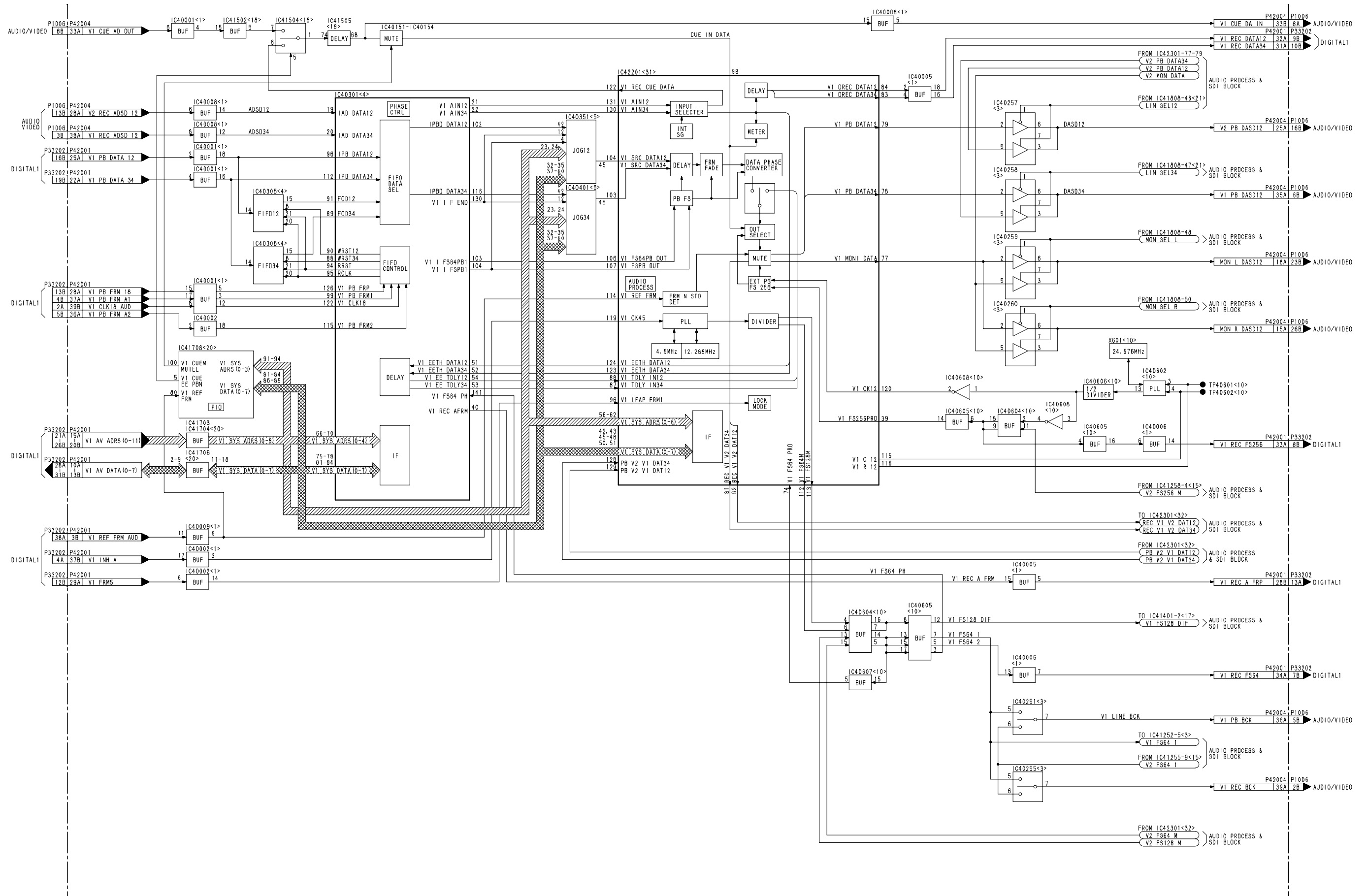


## SYNC GEN (SG) (VTR2) BLOCK DIAGRAM



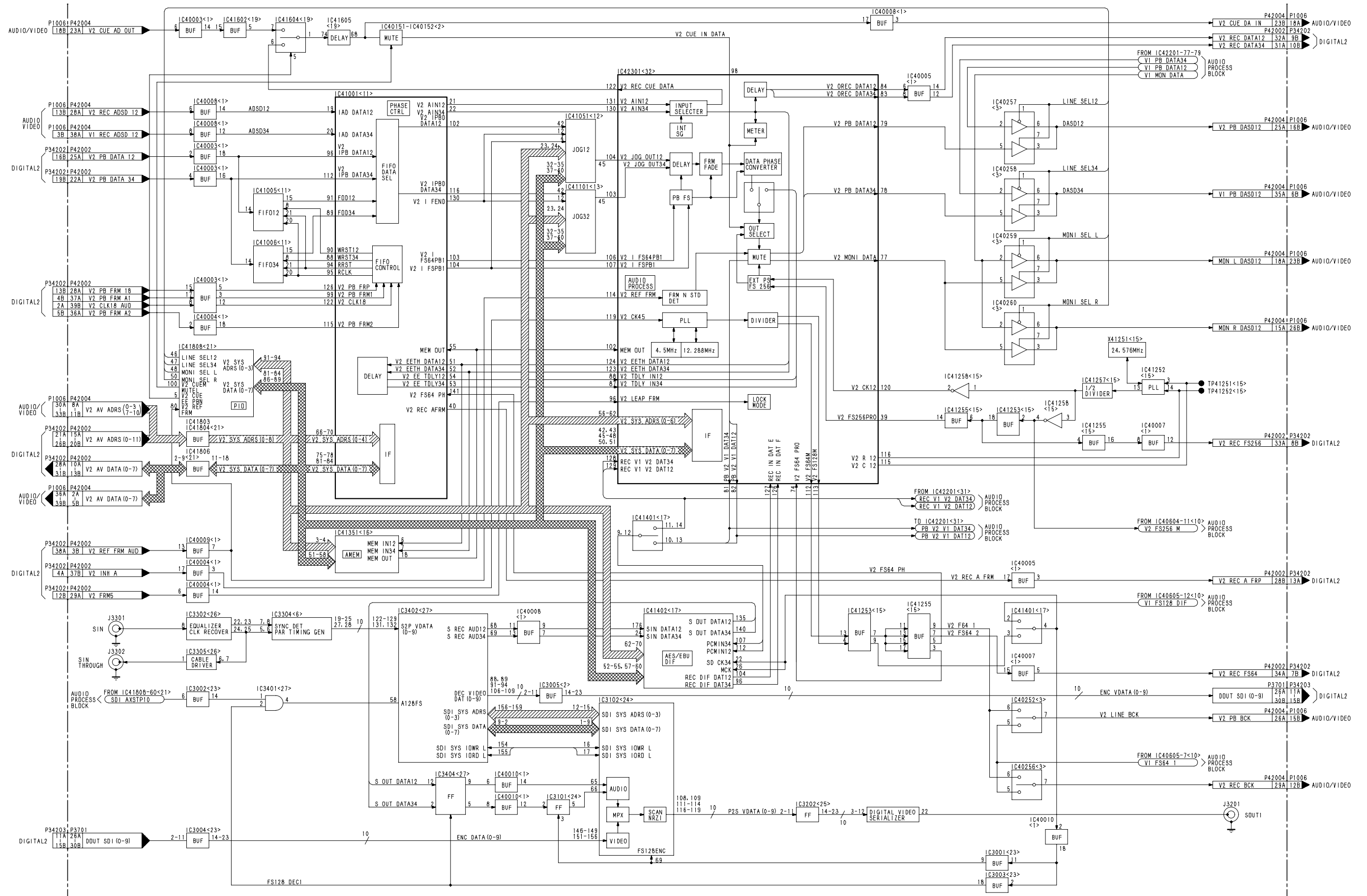


## AUDIO PROCESS (AUDIO PROCESS & SDI) (VTR1) BLOCK DIAGRAM



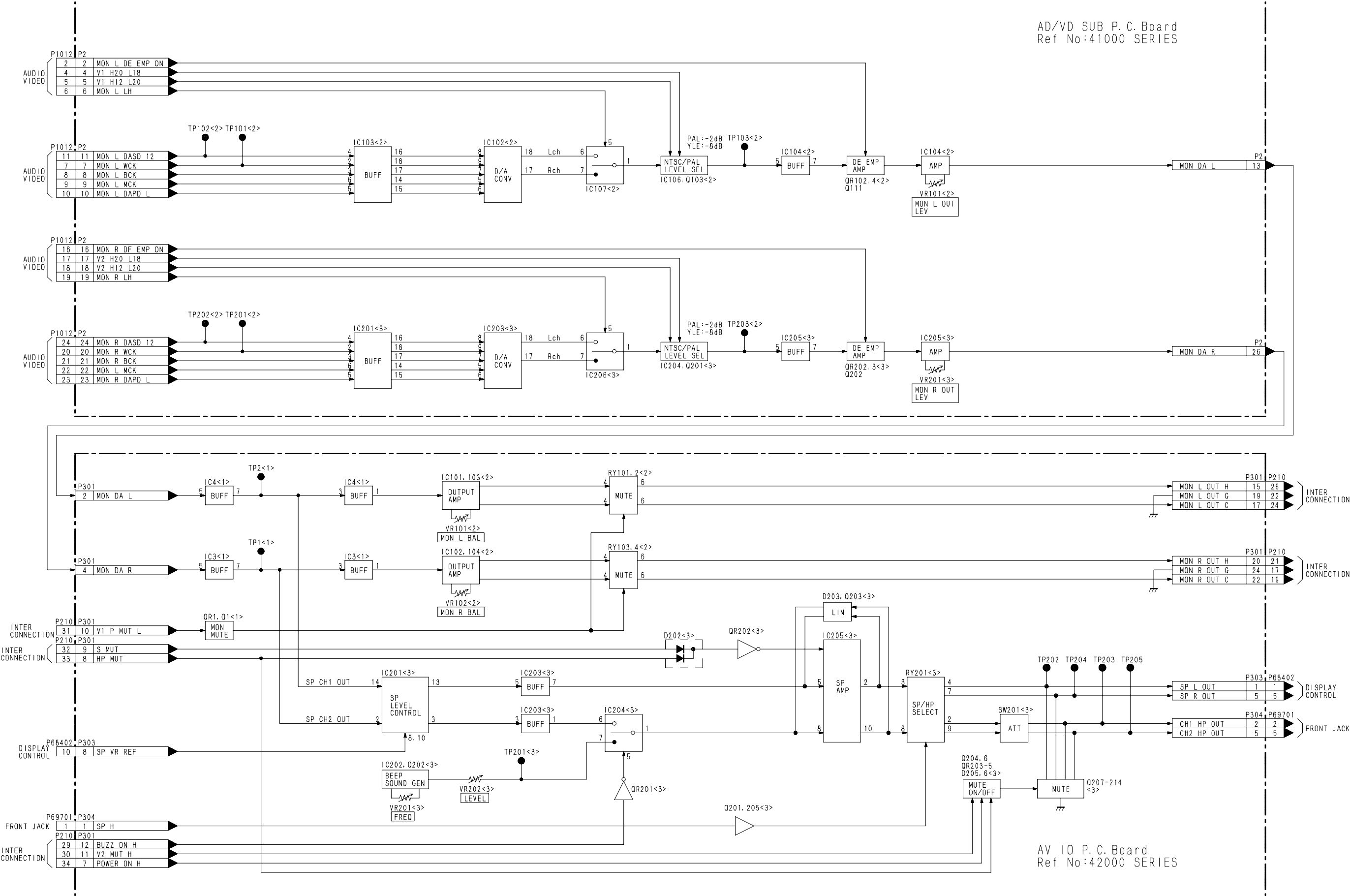


## AUDIO PROCESS & SDI (AUDIO PROCESS & SDI) (VTR2) BLOCK DIAGRAM



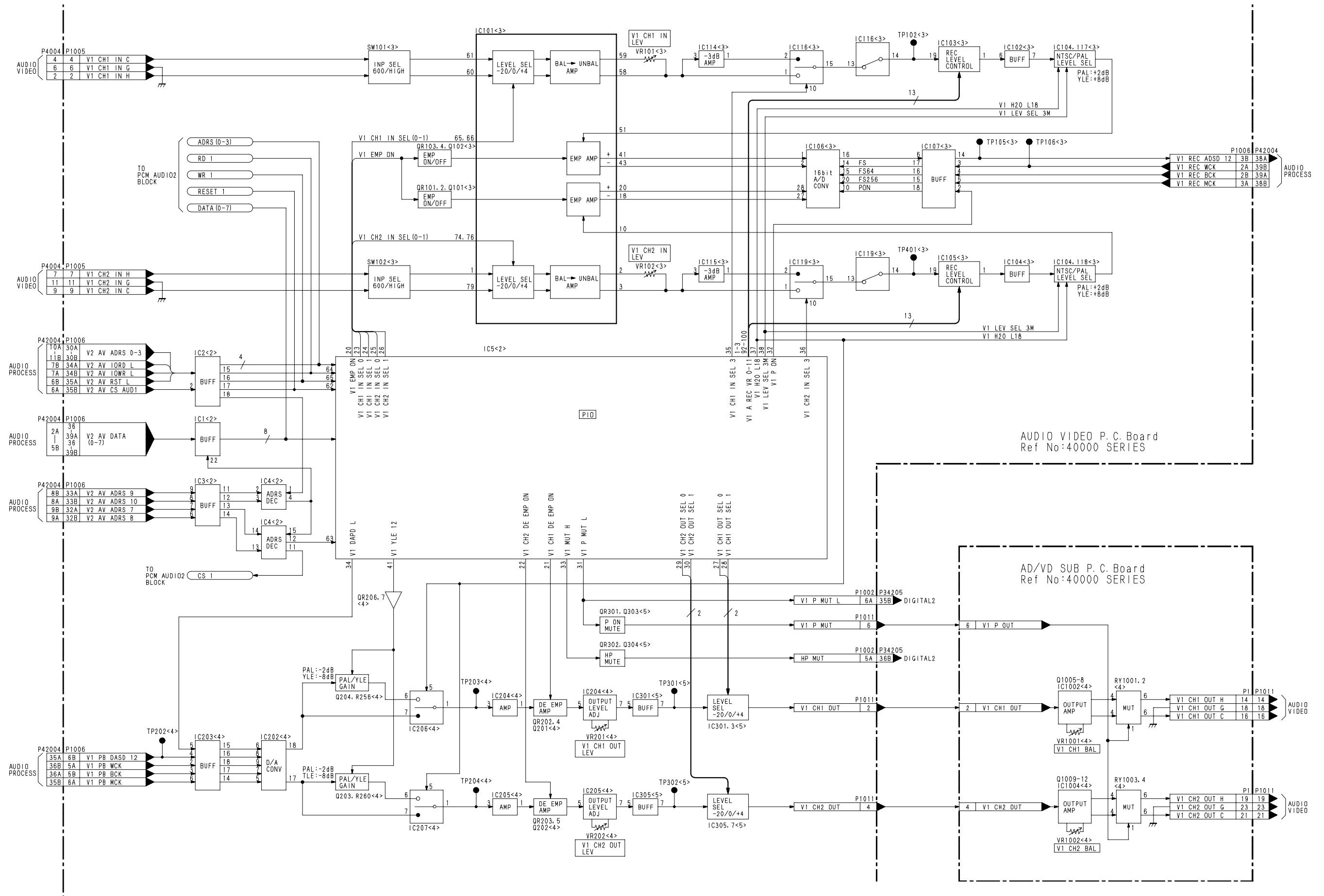


MONITOR OUT (AD/VD SUB & AV/IO) BLOCK DIAGRAM



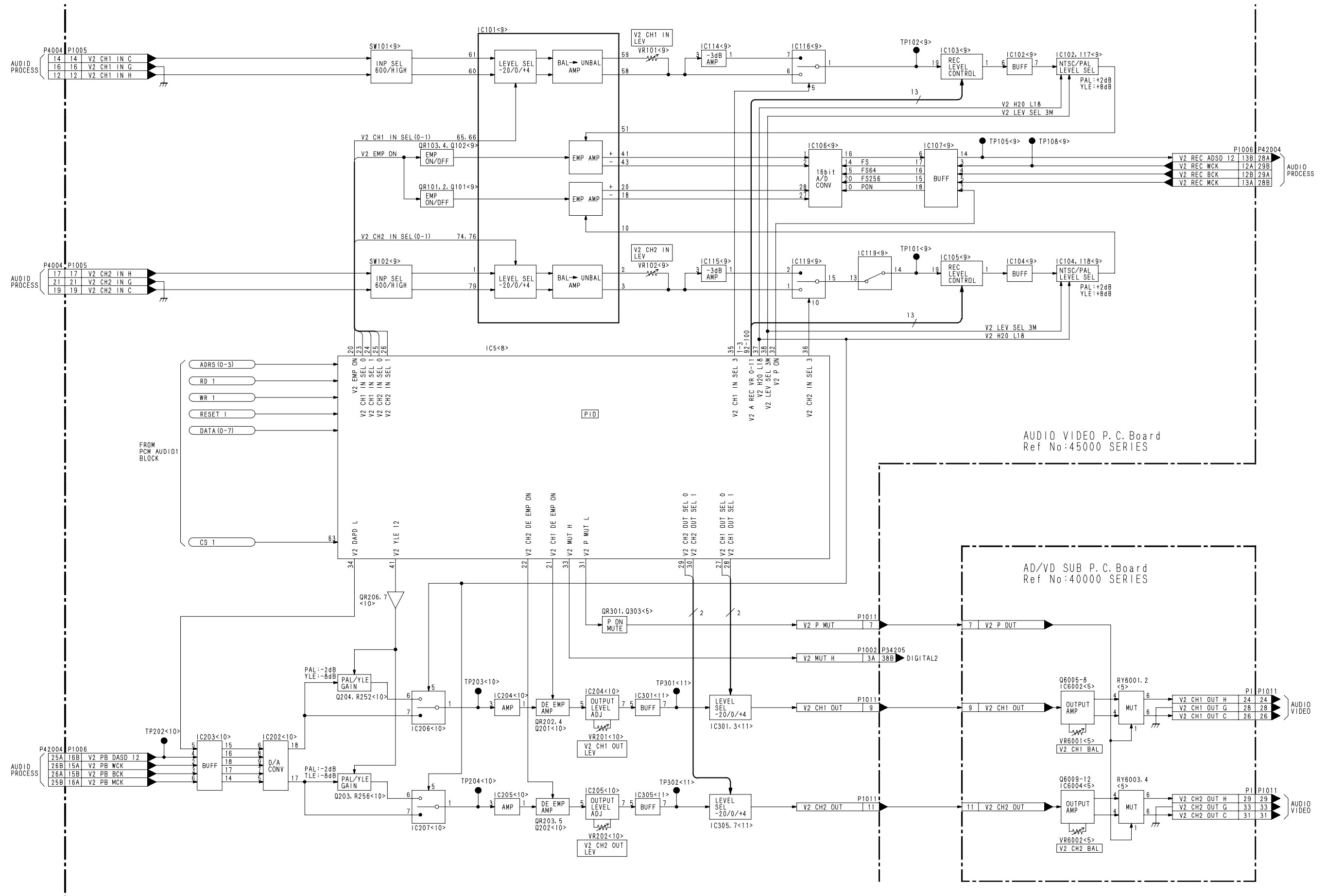


## PCM AUDIO 1 (AUDIO VIDEO & AD/VD SUB) (VTR1) BLOCK DIAGRAM



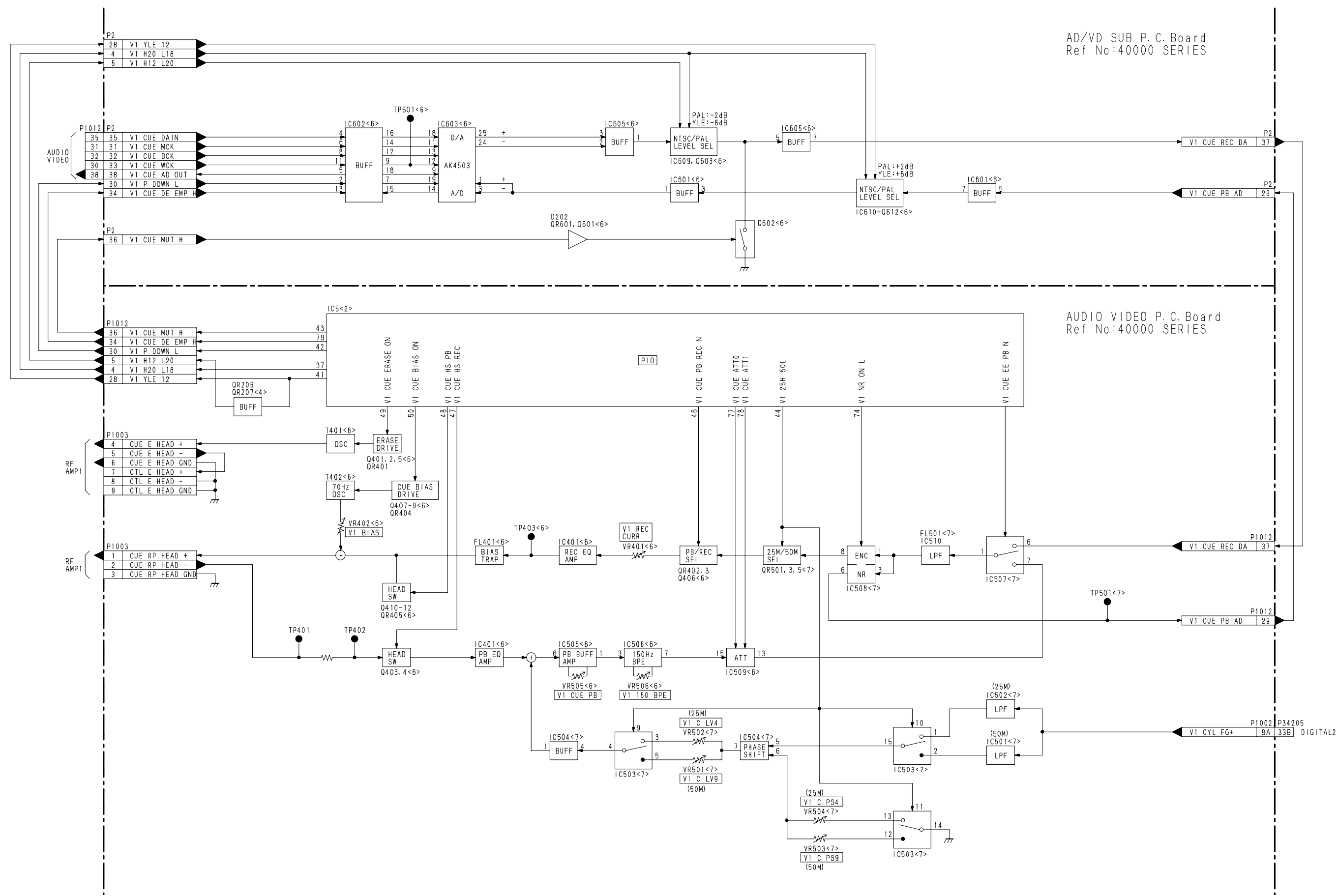


## PCM AUDIO 2 (AUDIO VIDEO & AD/VD SUB) (VTR2) BLOCK DIAGRAM



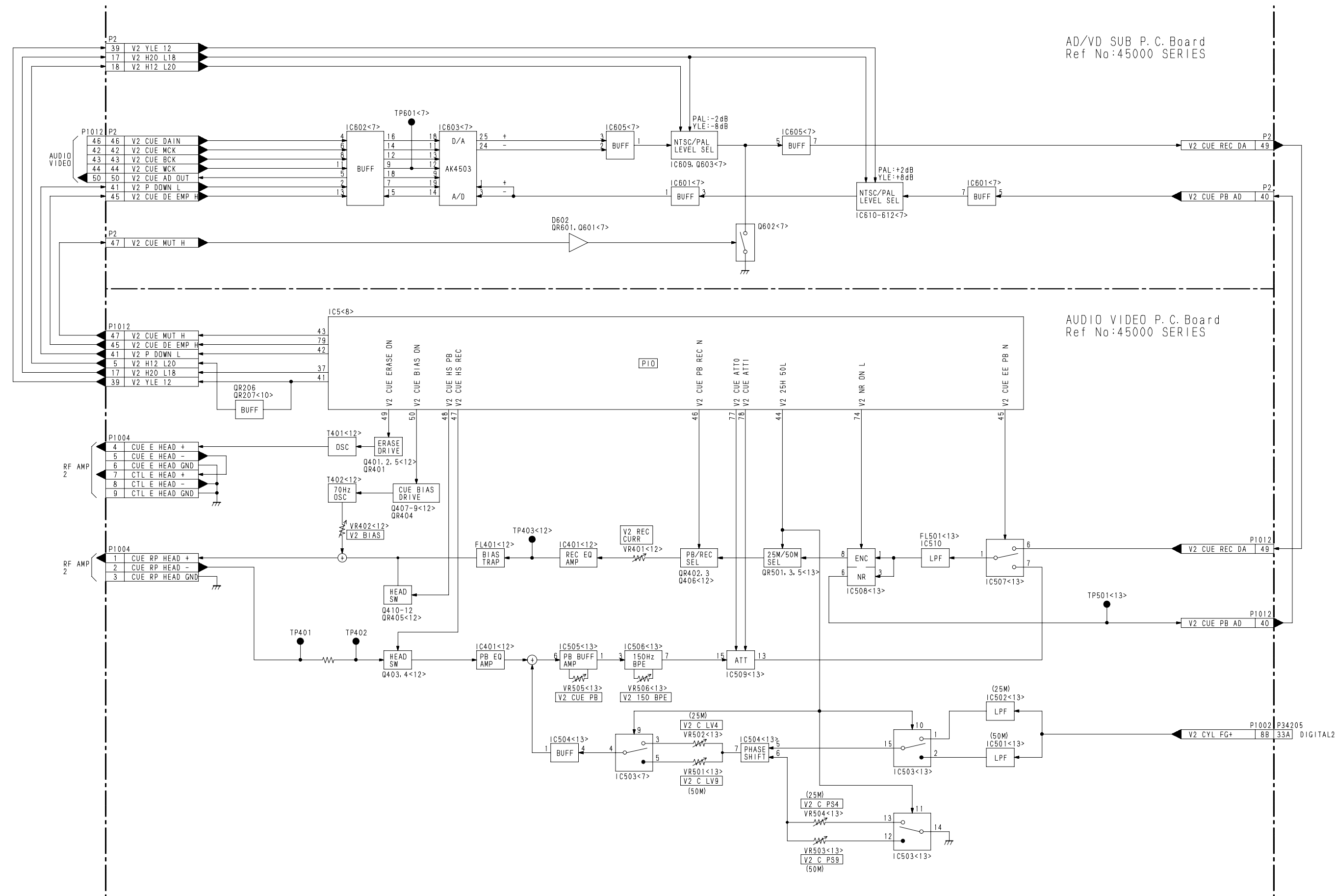


CUE AUDIO 1 (AUDIO VIDEO & AD/VD SUB) (VTR1) BLOCK DIAGRAM



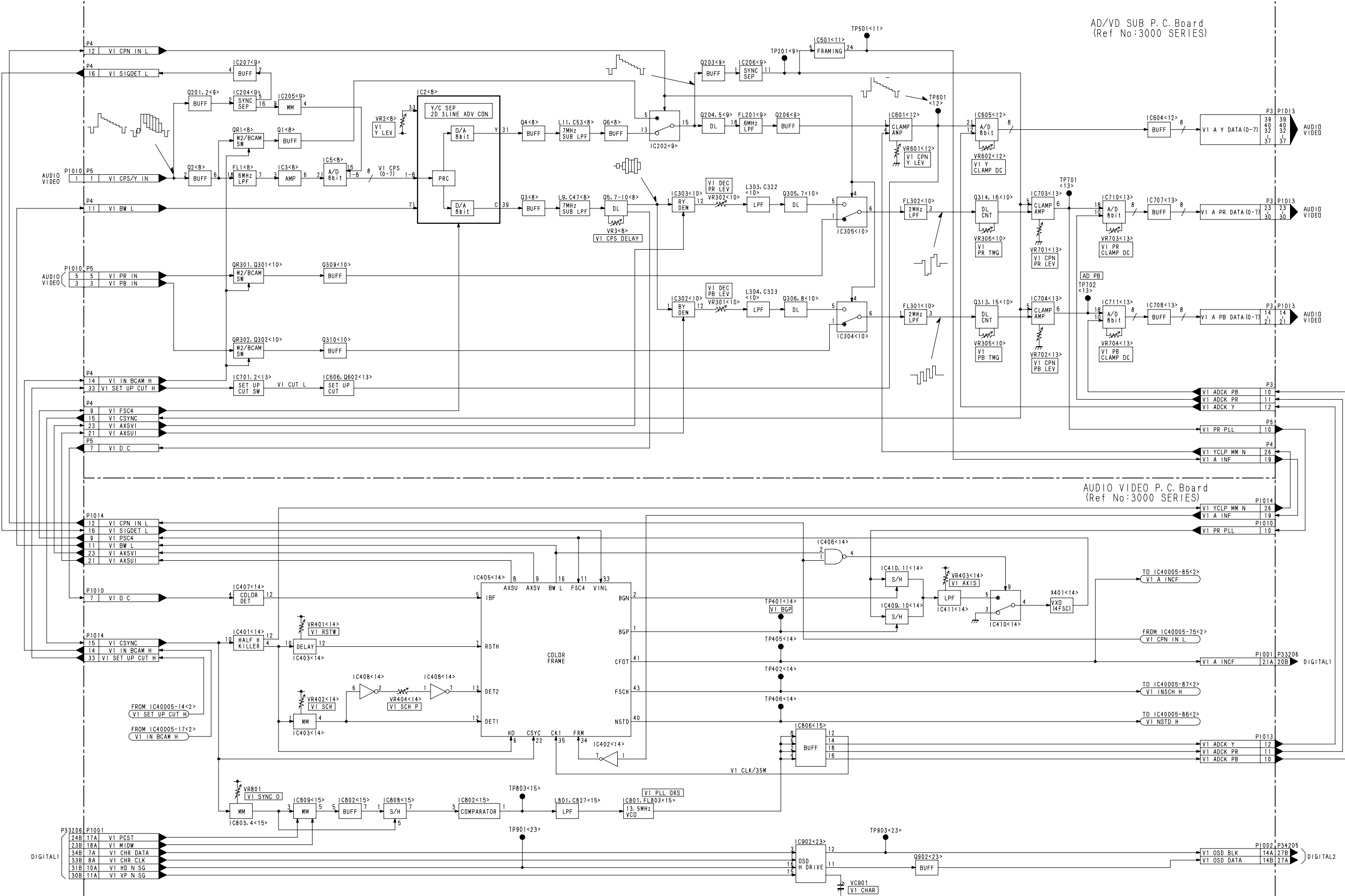


CUE AUDIO 2 (AUDIO VIDEO & AD/VD SUB) (VTR2) BLOCK DIAGRAM



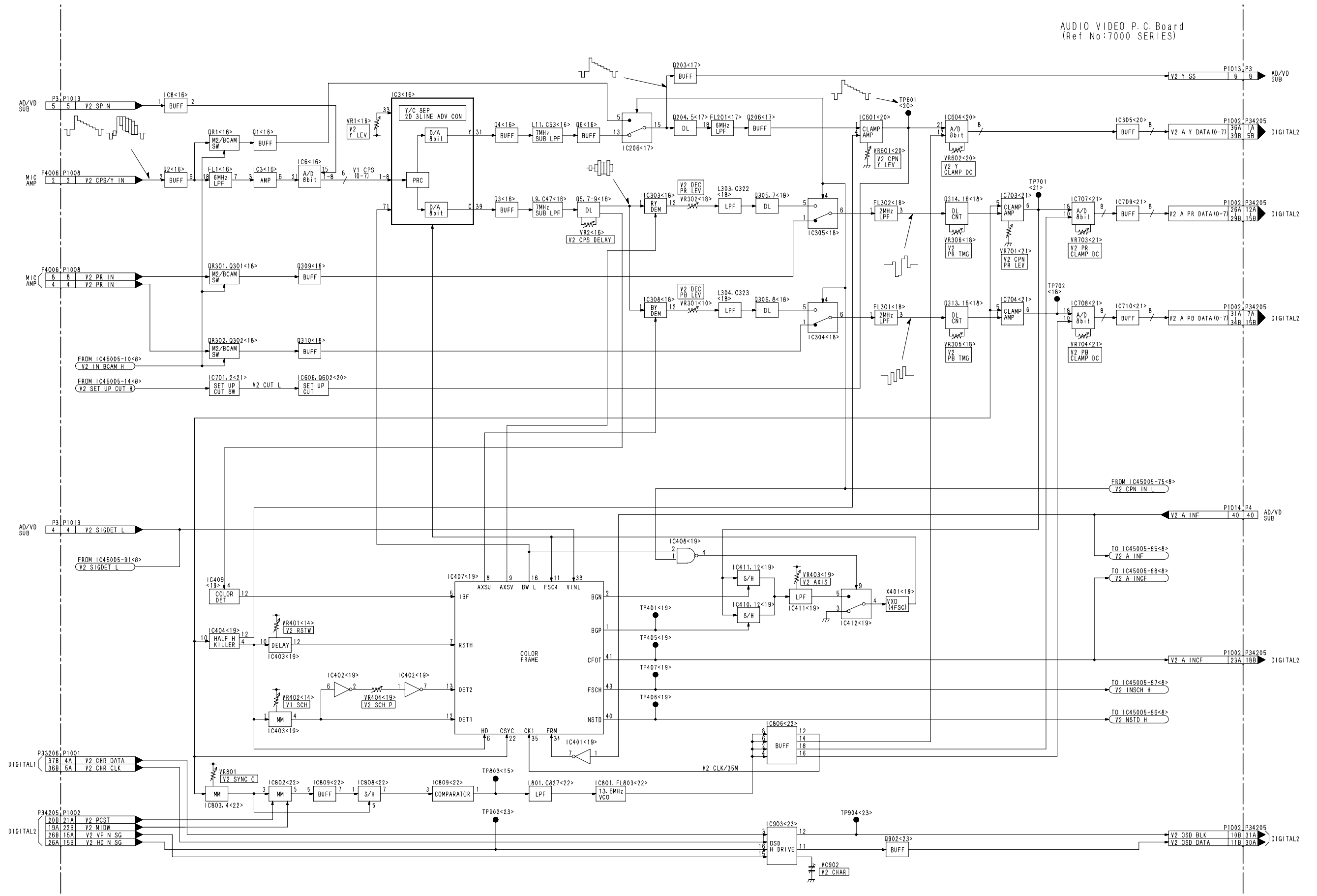


## VIDEO IN 1 (AUDIO VIDEO & AD/VD SUB) (VTR1) BLOCK DIAGRAM



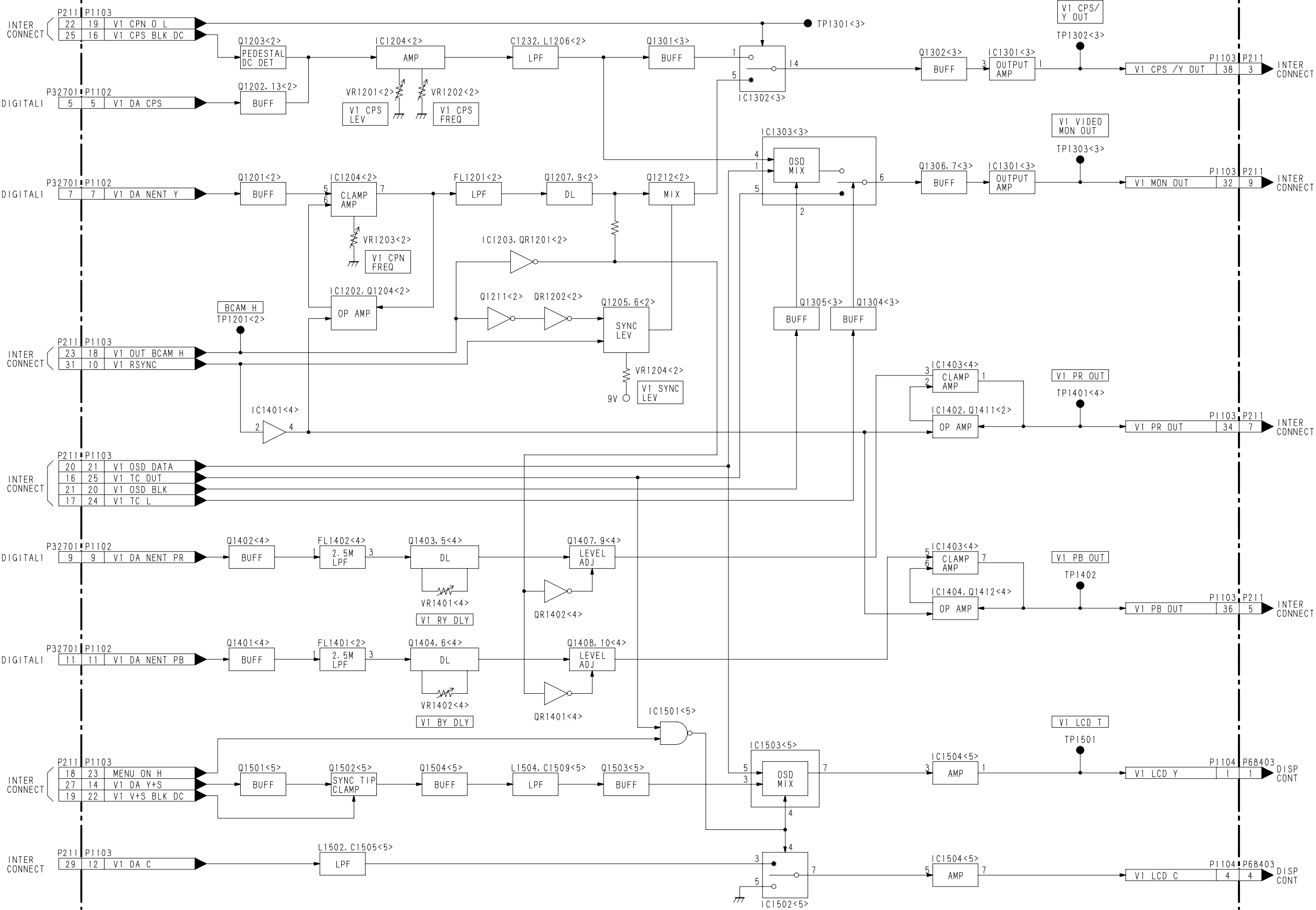


## VIDEO IN 2 (AUDIO VIDEO) (VTR2) BLOCK DIAGRAM



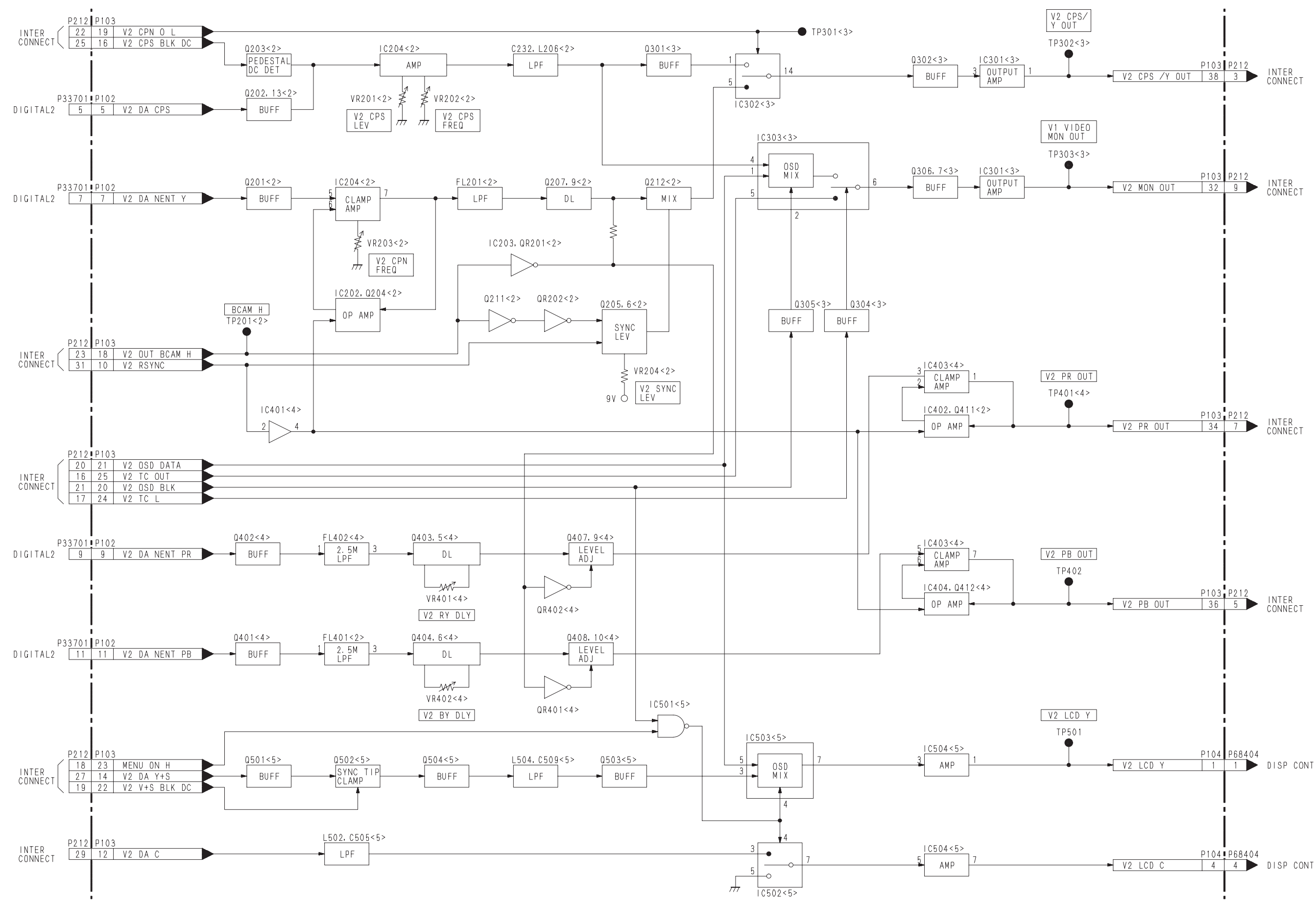


VIDEO OUT 1 (VIDEO OUT 1) (VTR1) BLOCK DIAGRAM



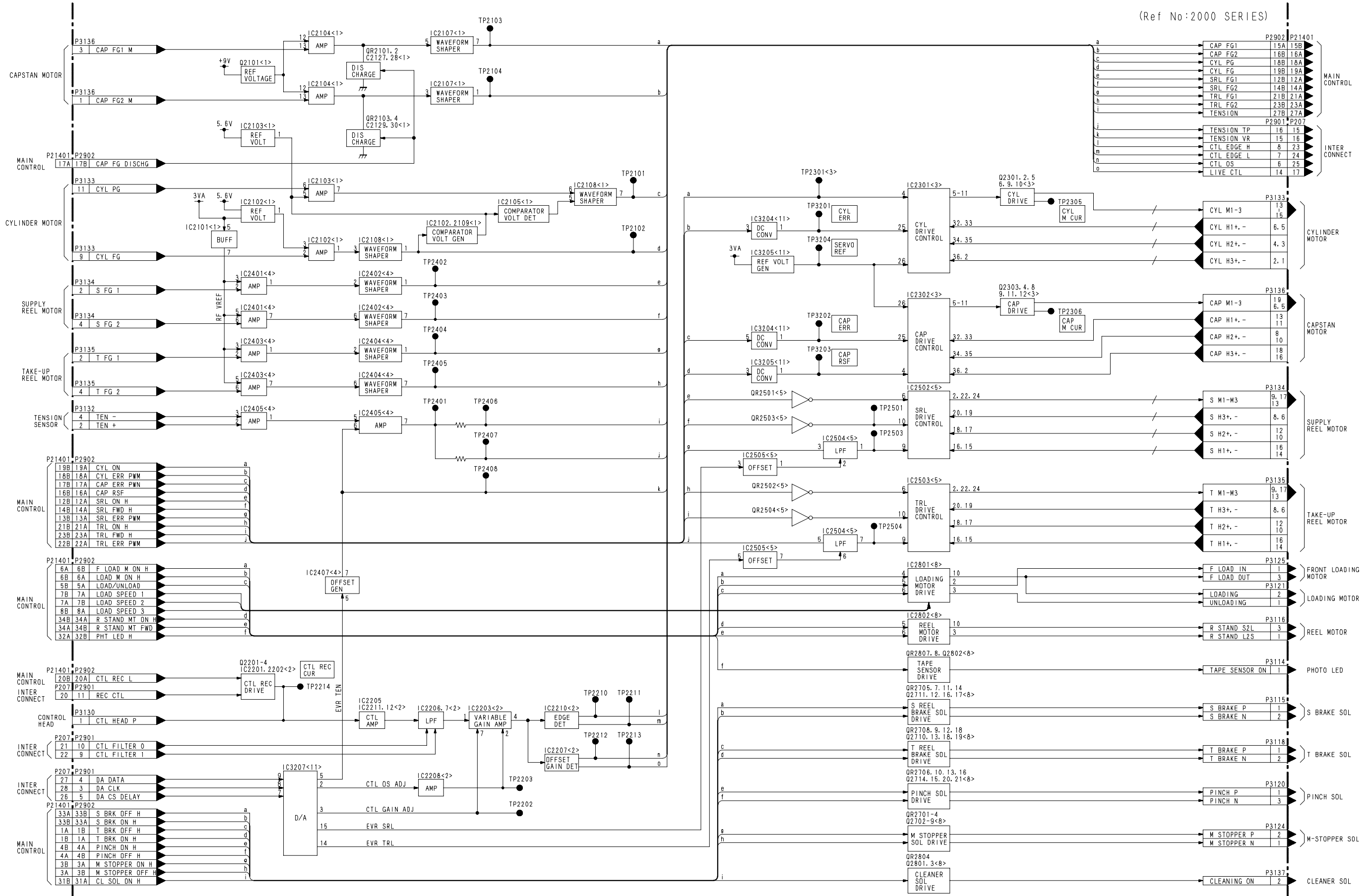


VIDEO OUT 2 (VIDEO OUT 2) (VTR2) BLOCK DIAGRAM



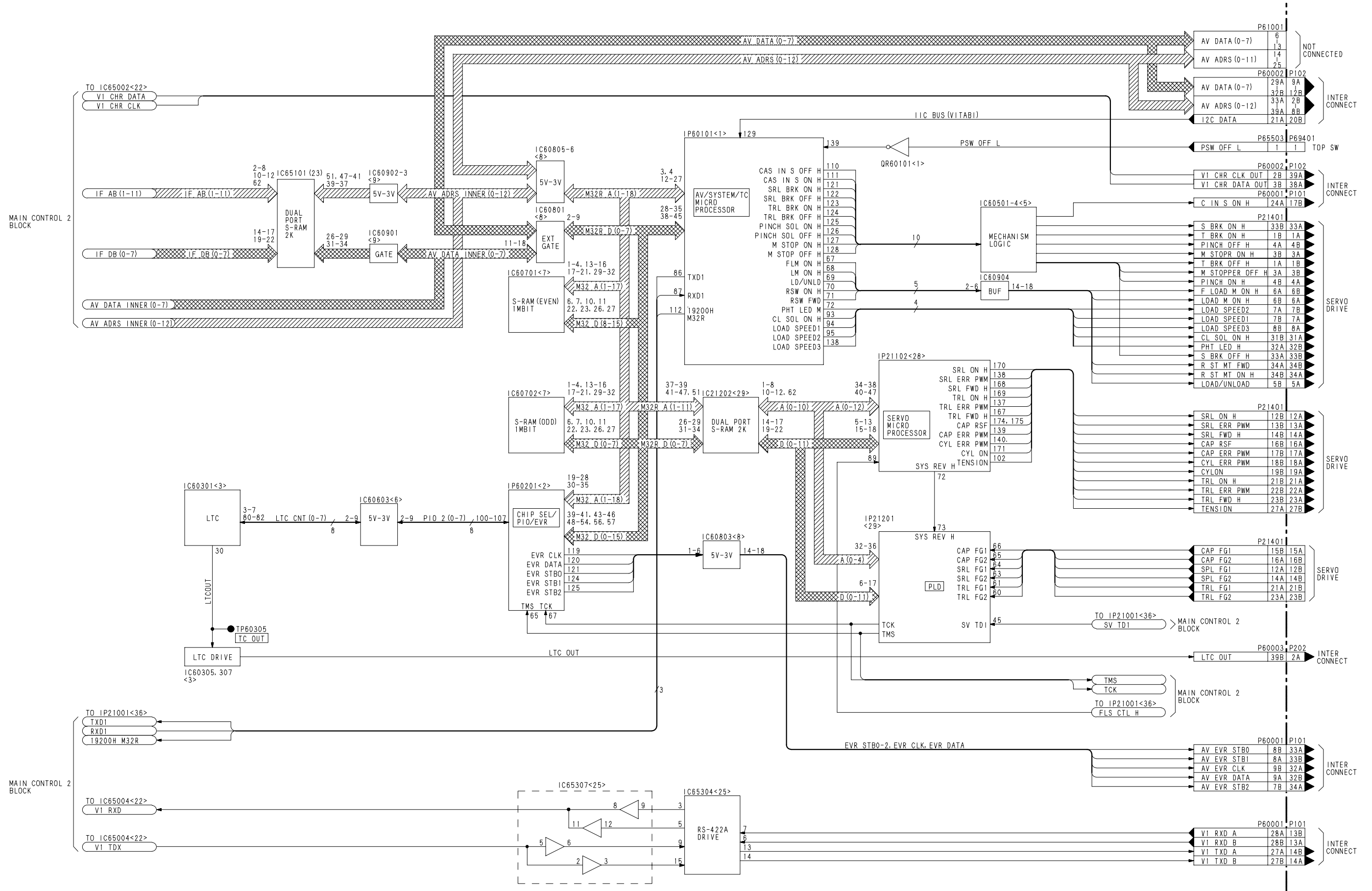


## SERVO DRIVE (SERVO DRIVE : Common of VTR 1 & 2) BLOCK DIAGRAM



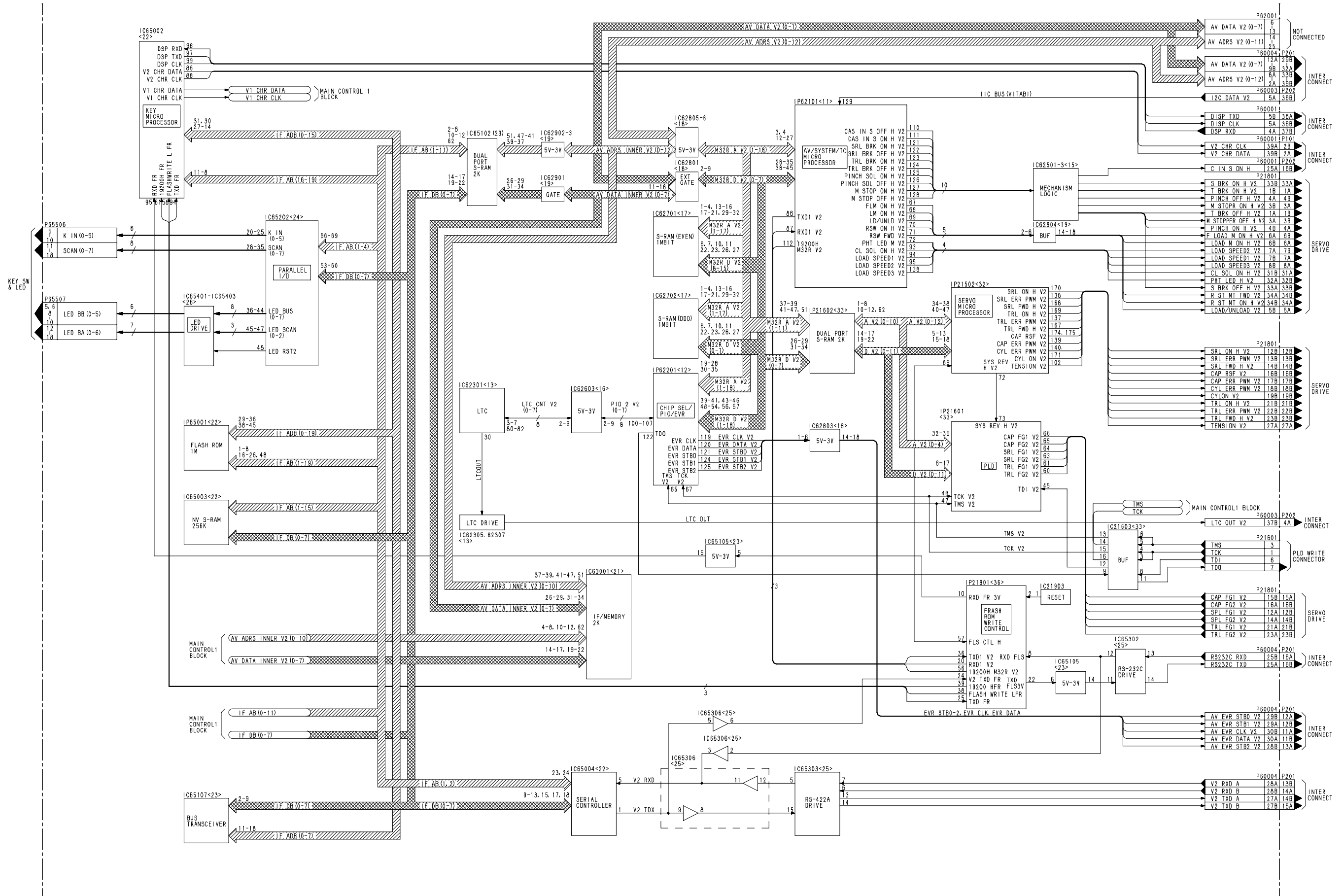


## MAIN CONTROL 1 (MAIN CONTROL) (VTR1) BLOCK DIAGRAM



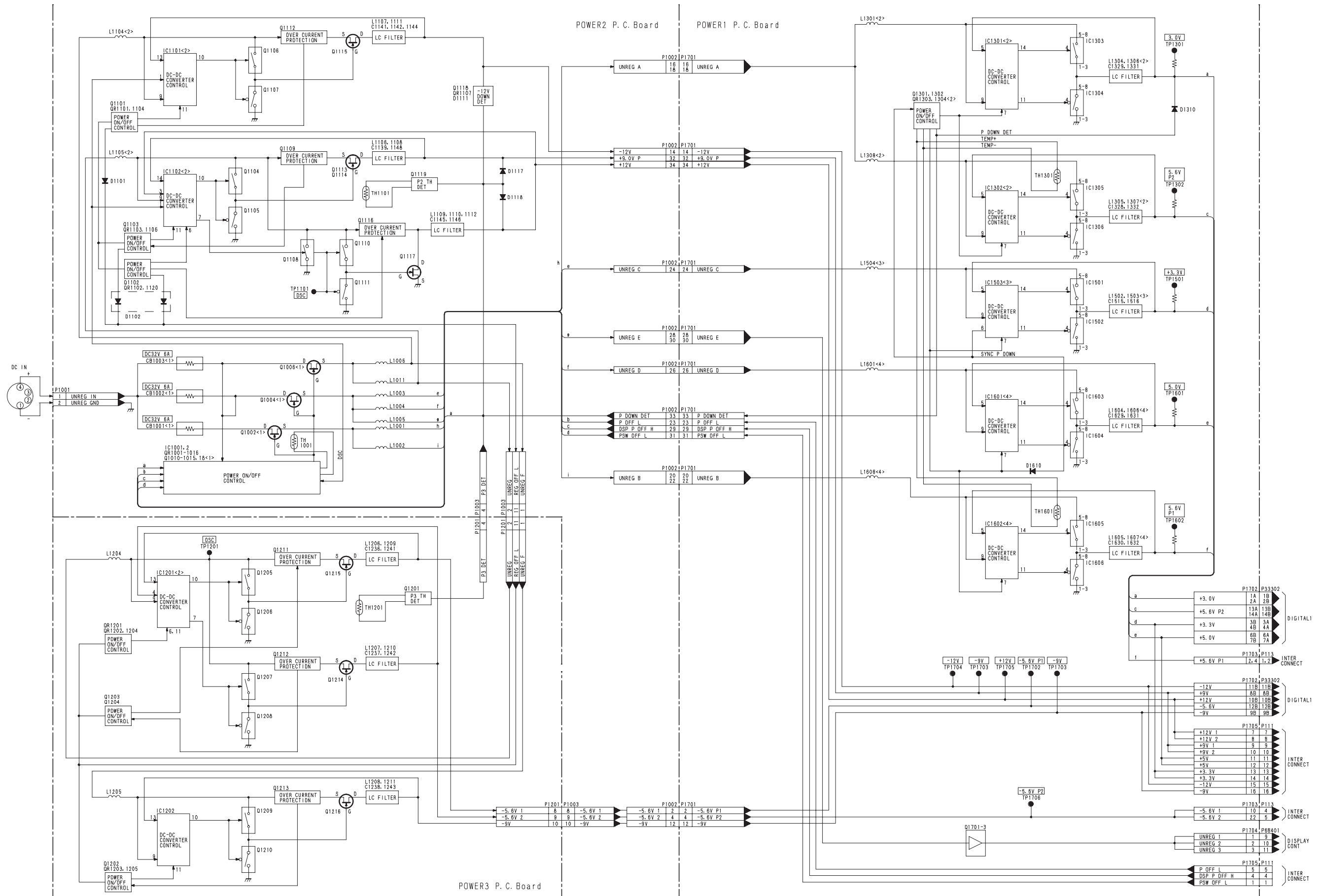


## MAIN CONTROL 2 (MAIN CONTROL) (VTR2) BLOCK DIAGRAM

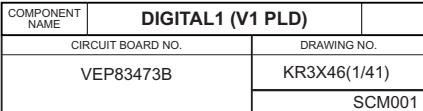
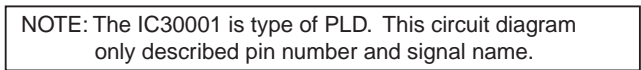




### POWER (POWER 1, POWER 2 & POWER 3) (VTR1) BLOCK DIAGRAM



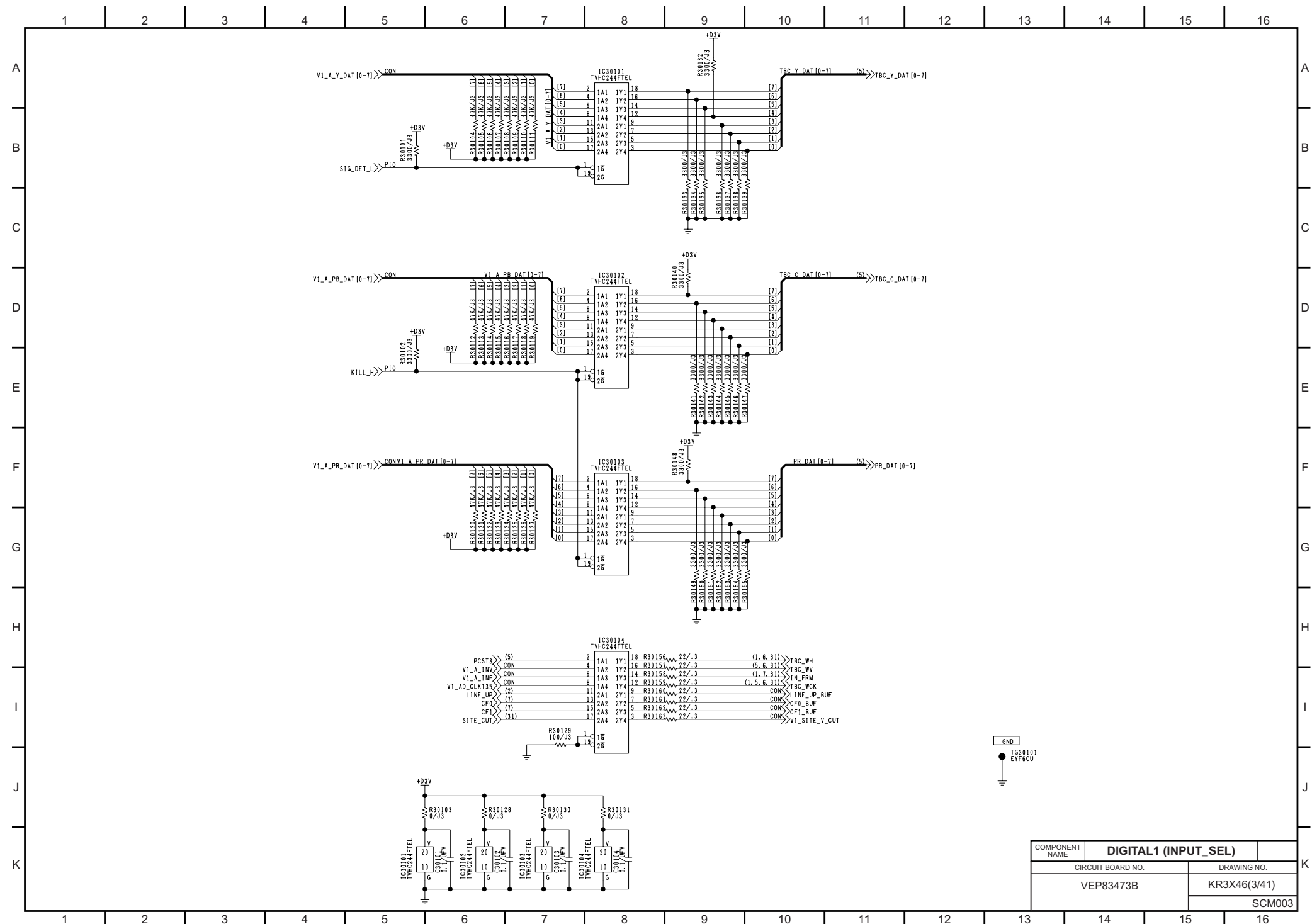




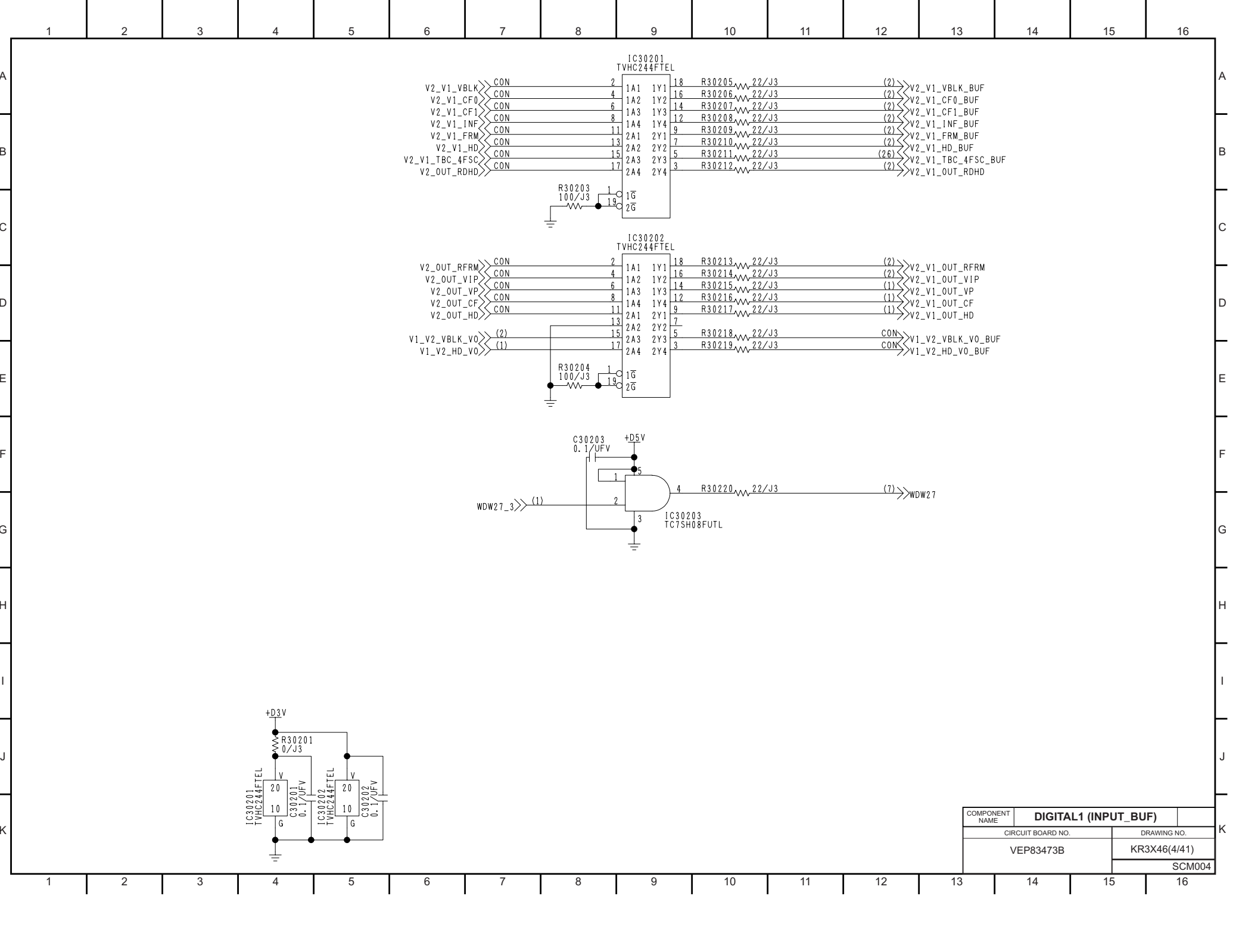






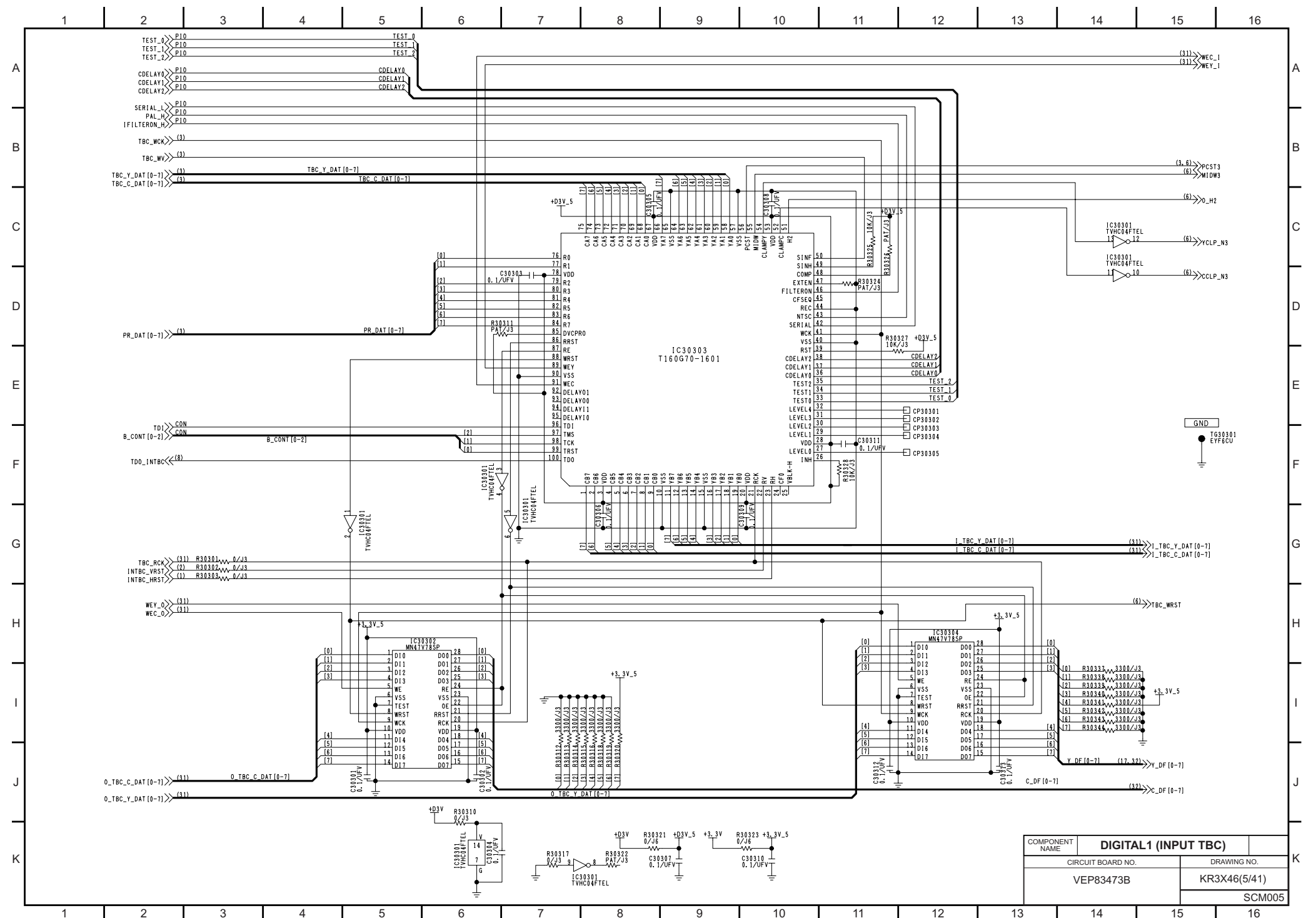




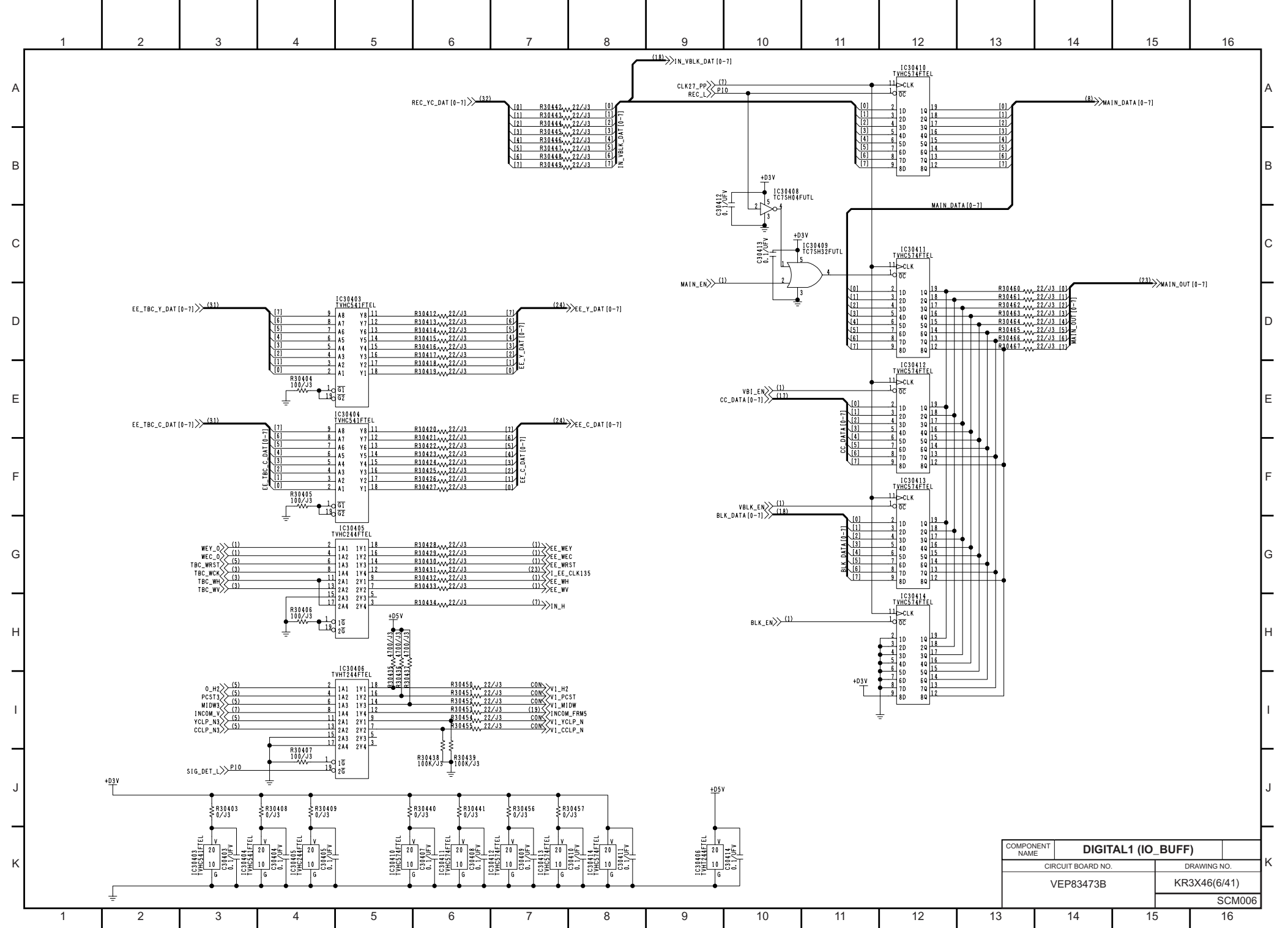


COMPONENT NAME	DIGITAL1 (INPUT_BUF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(4/41)
		SCM004

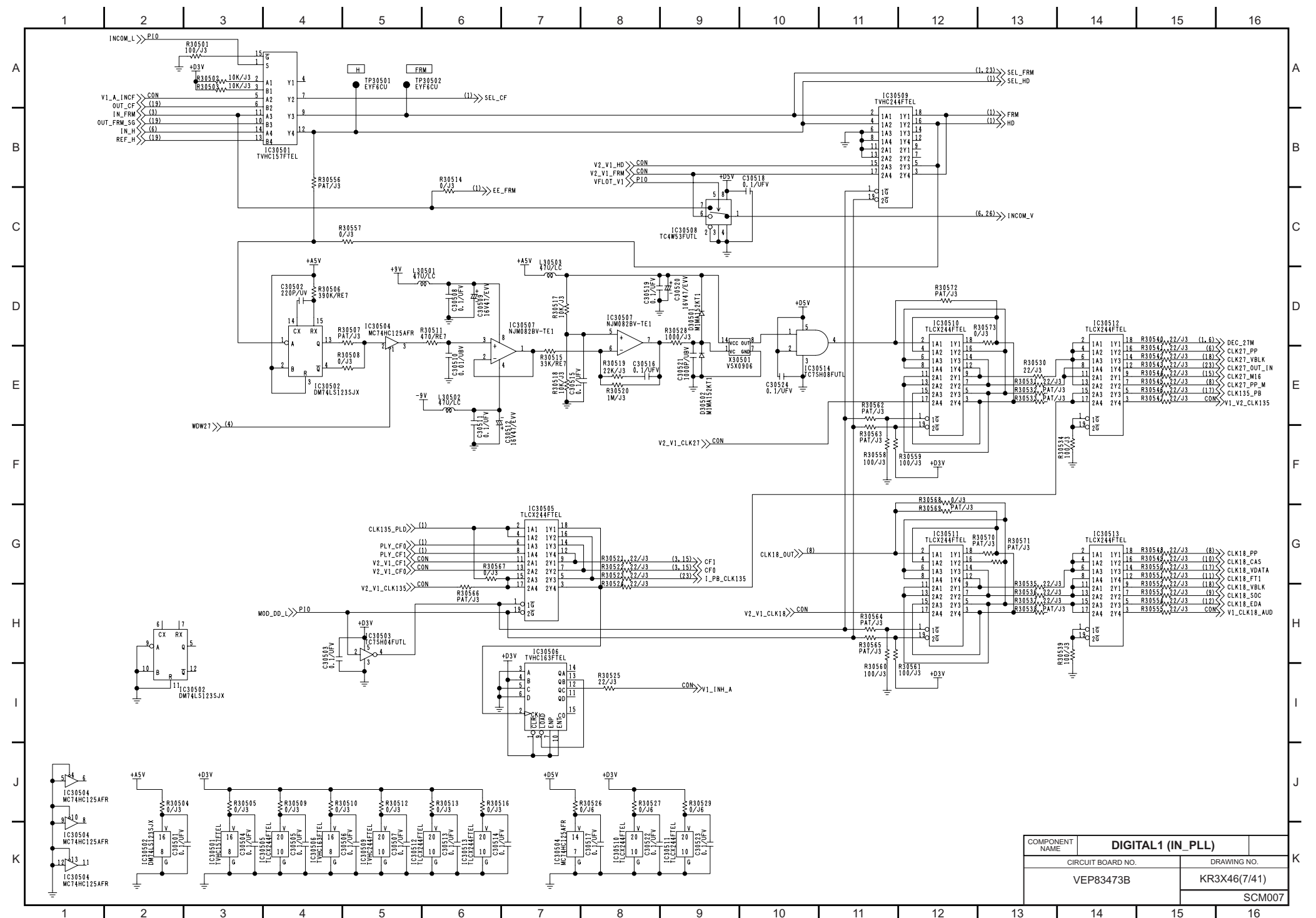




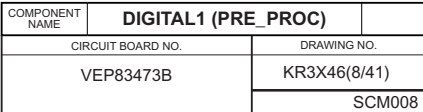








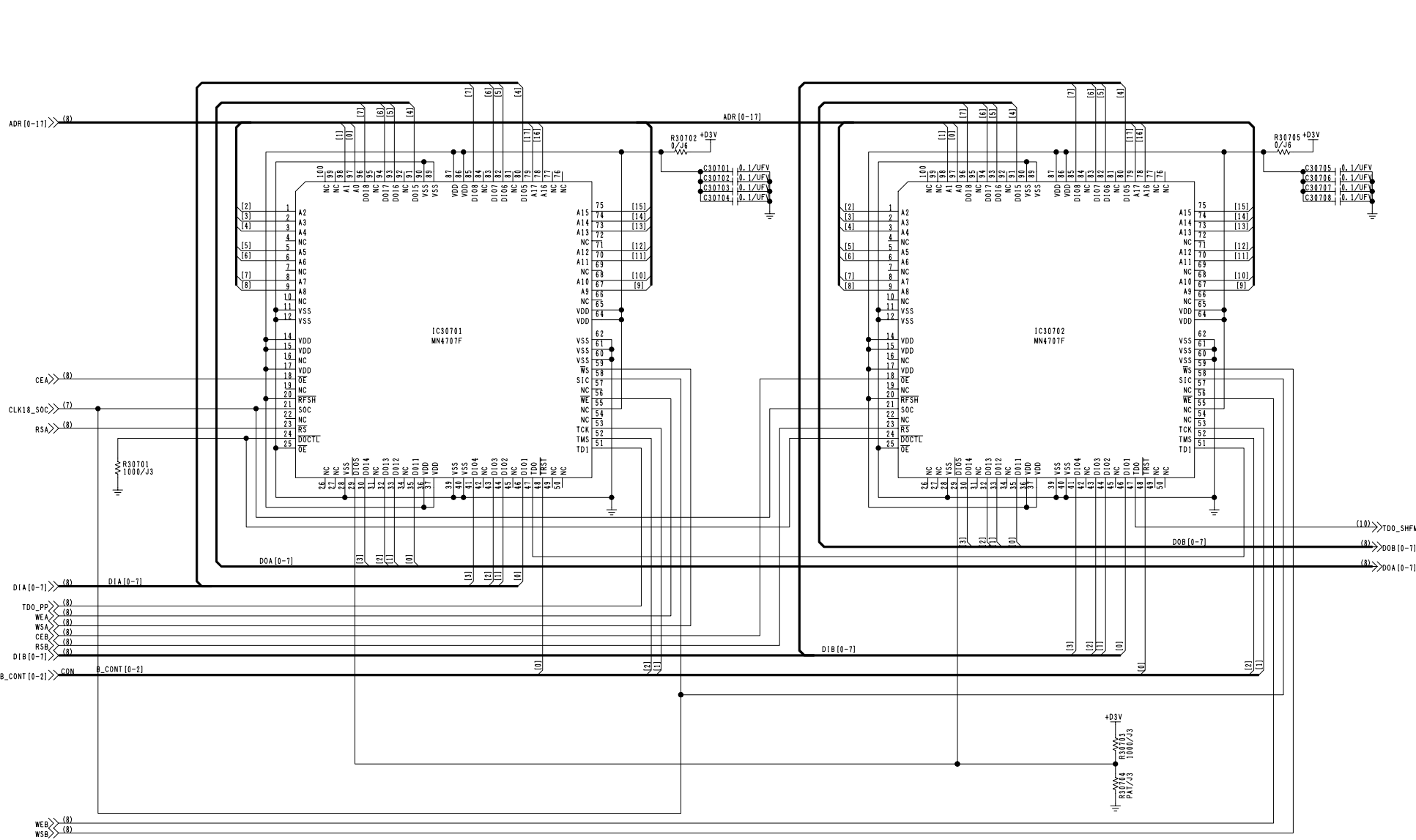




COMPONENT NAME	DIGITAL1 (PRE_PROC)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(8/41)
		SCM008



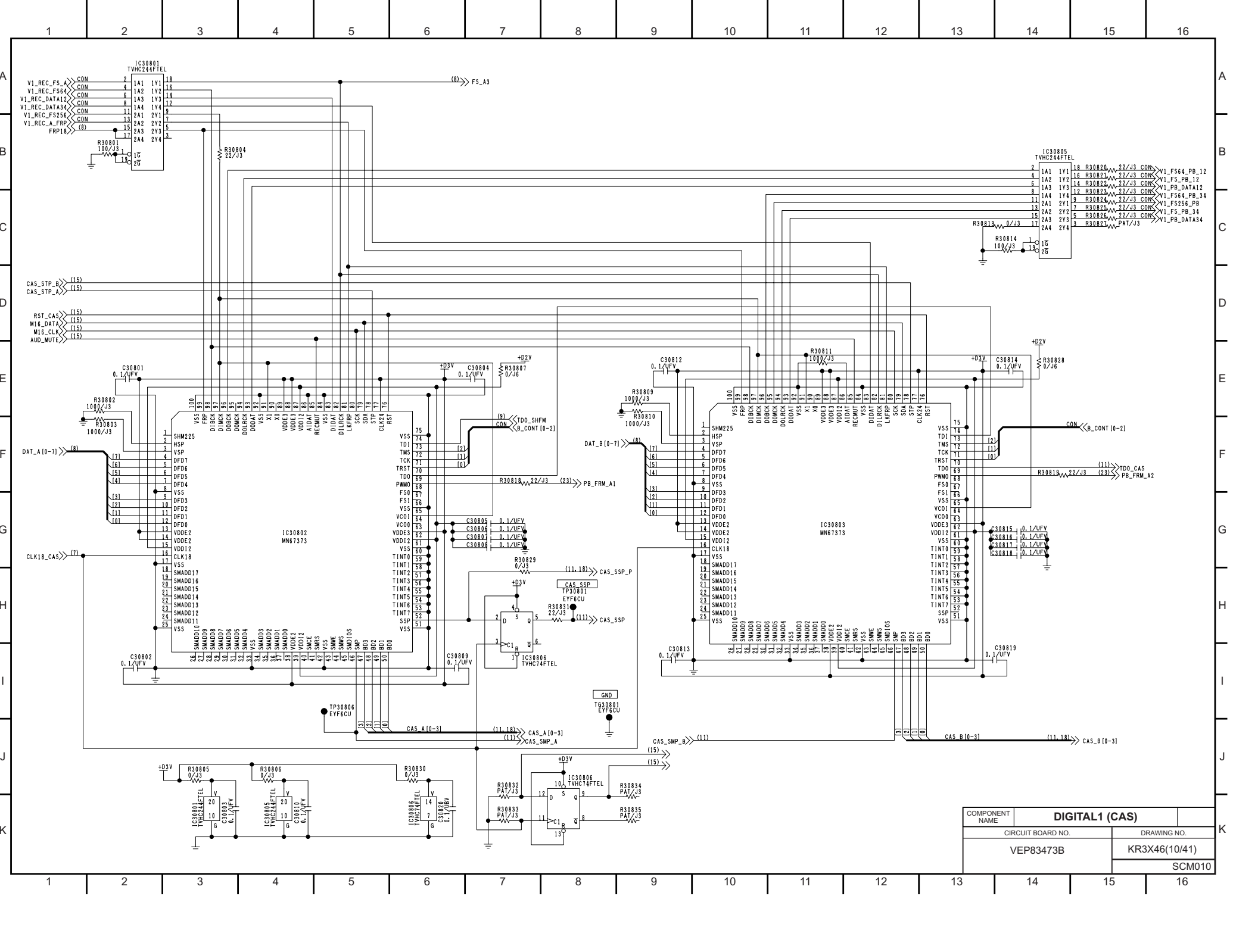
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



COMPONENT NAME		DIGITAL1 (SHF_MEM)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(9/41)	
		SCM009	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



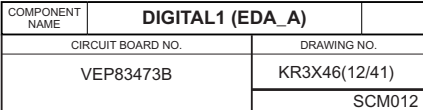


COMPONENT NAME		DIGITAL1 (CAS)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(10/41)	
		SCM010	

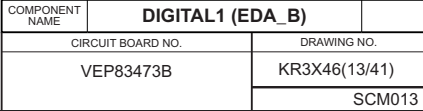




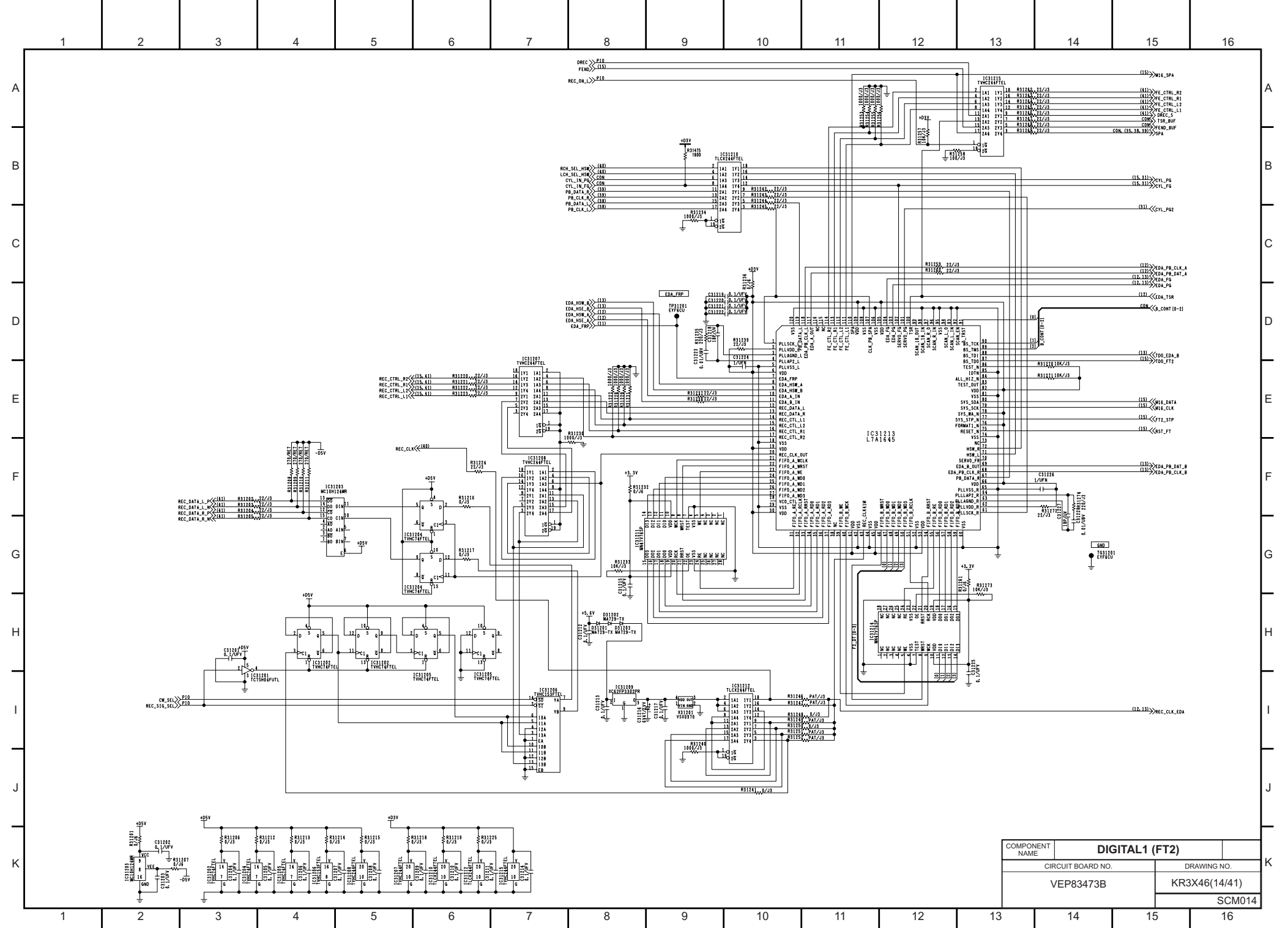






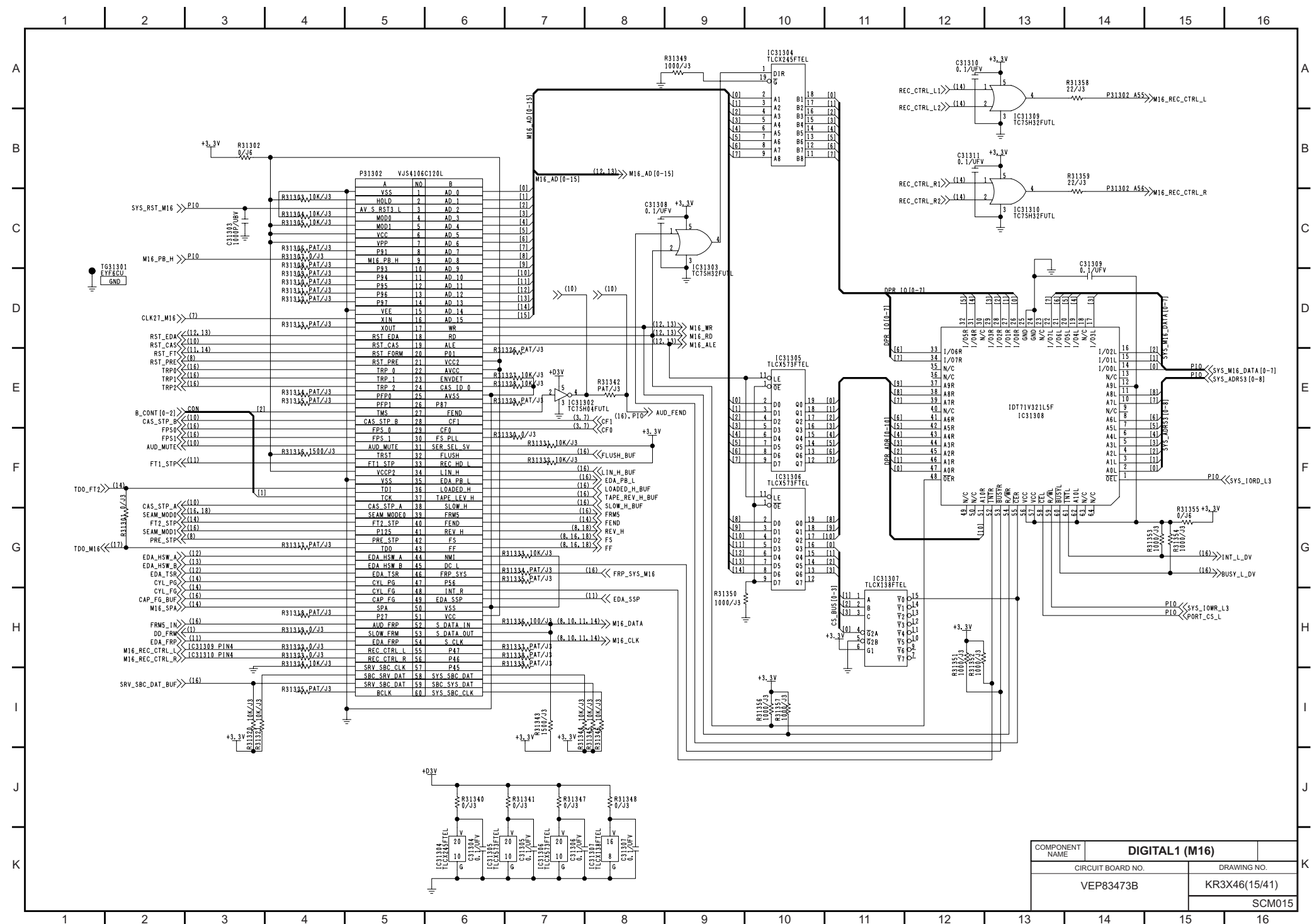




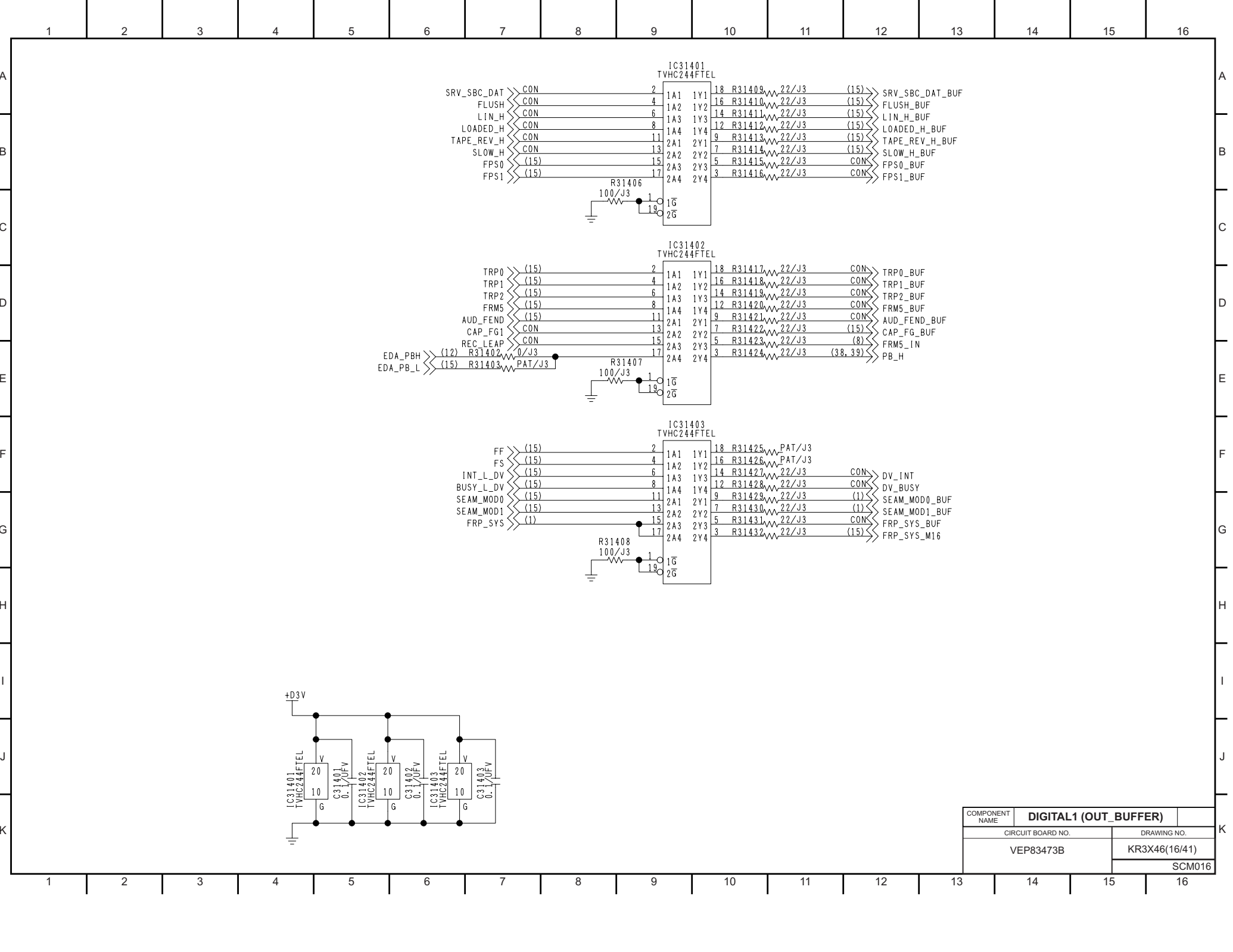


COMPONENT NAME	<b>DIGITAL1 (FT2)</b>		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(14/41)	
		SCM014	









COMPONENT NAME	DIGITAL1 (OUT_BUFFER)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(16/41)
		SCM016

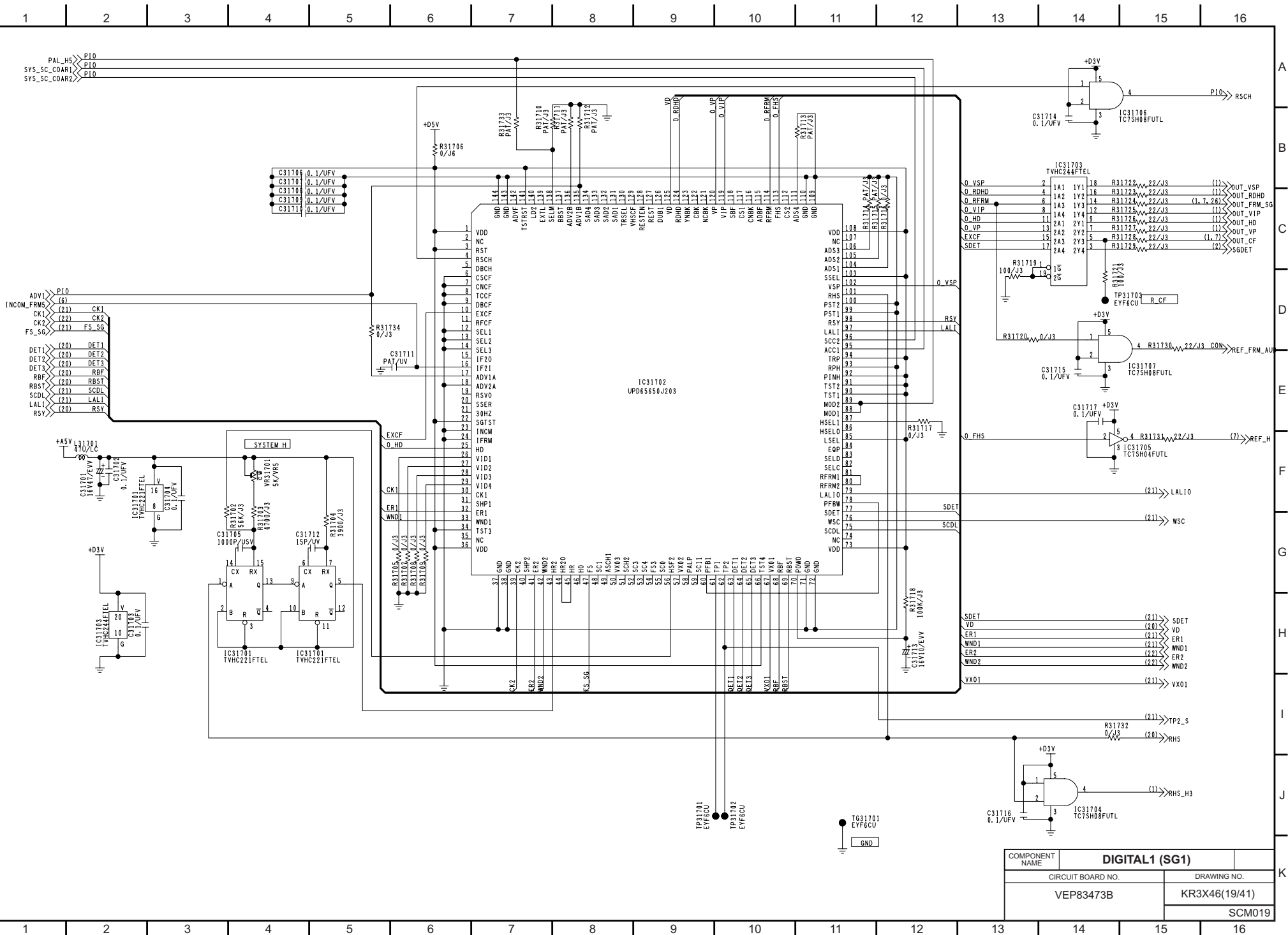




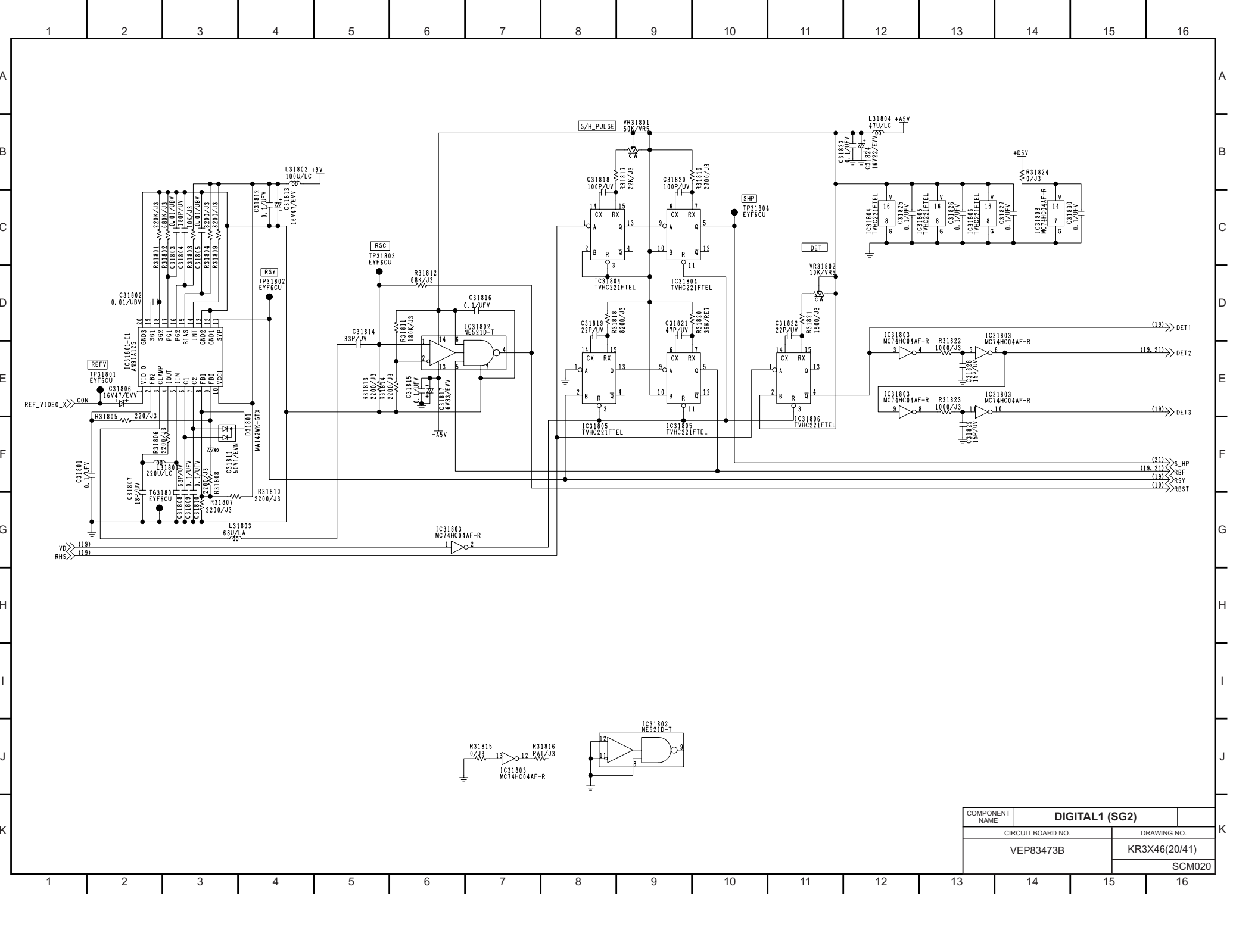














1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A

B

C

D

E

F

G

H

I

J

K

A

B

C

D

E

F

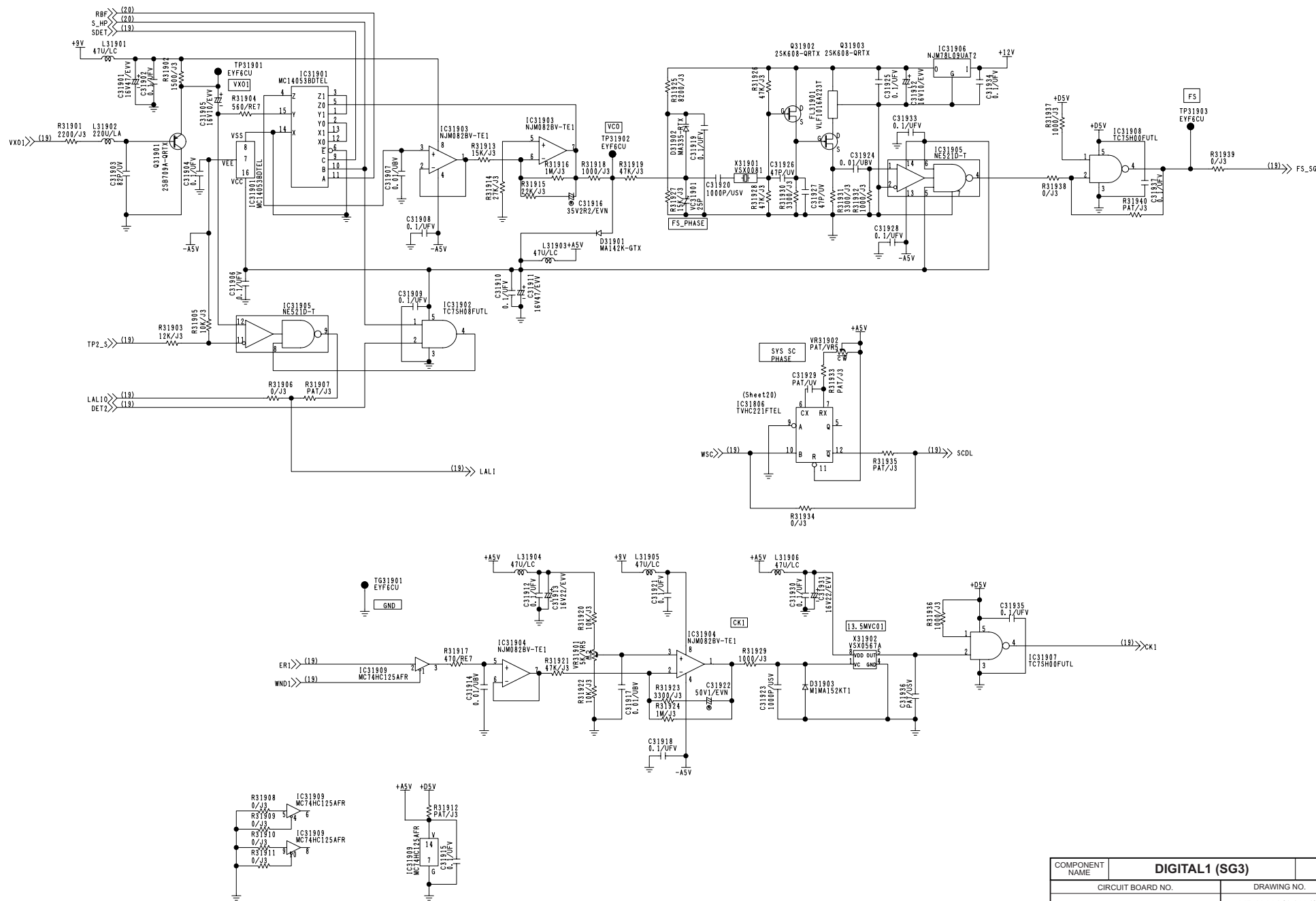
G

H

I

J

K



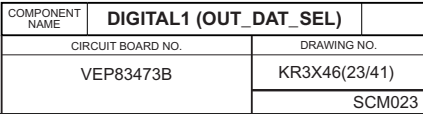
COMPONENT NAME		DIGITAL1 (SG3)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(21/41)	
		SCM021	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

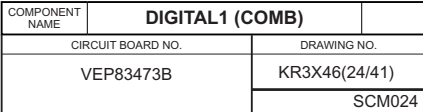






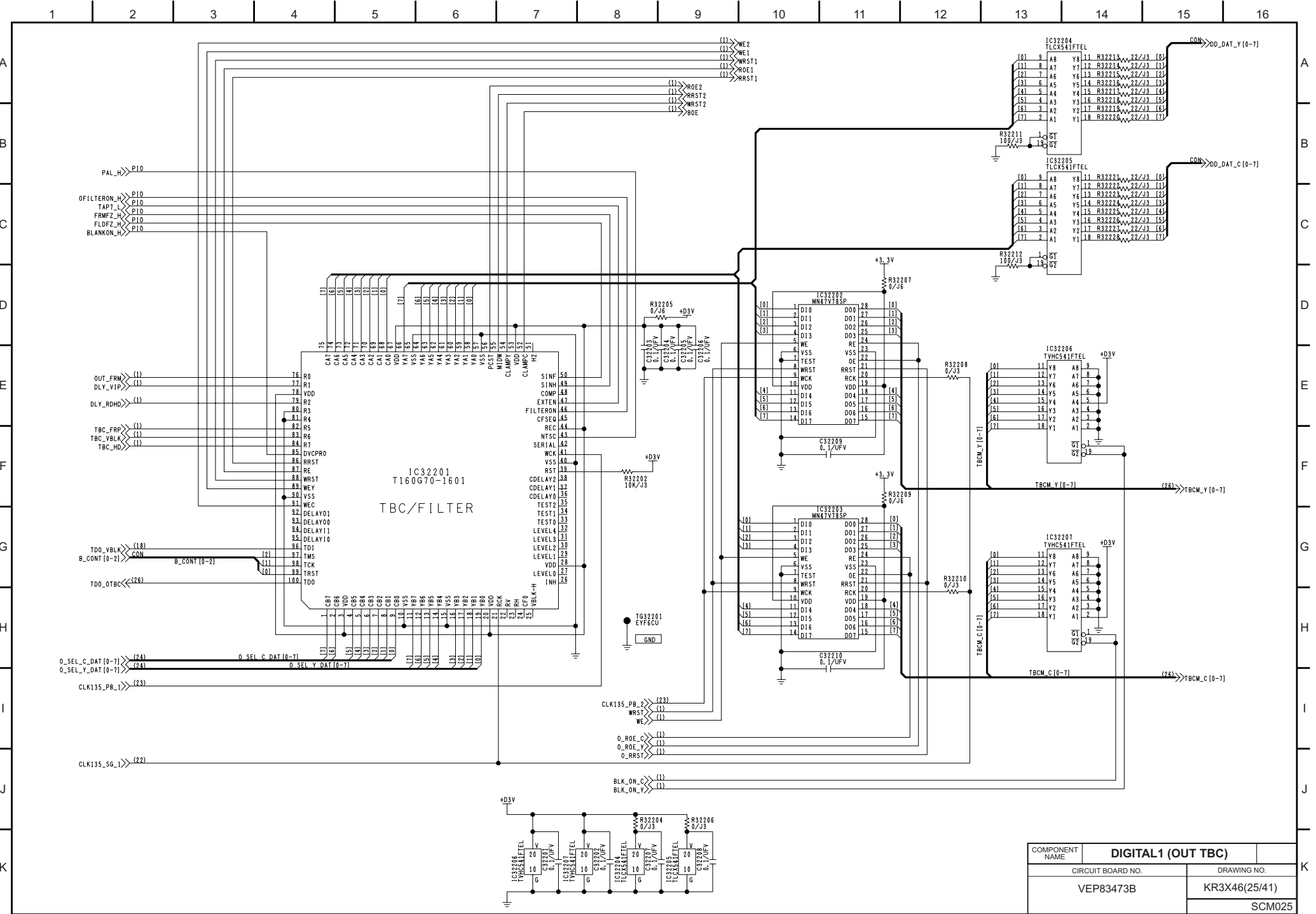






COMPONENT NAME	<b>DIGITAL1 (COMB)</b>		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(24/41)	
		SCM024	



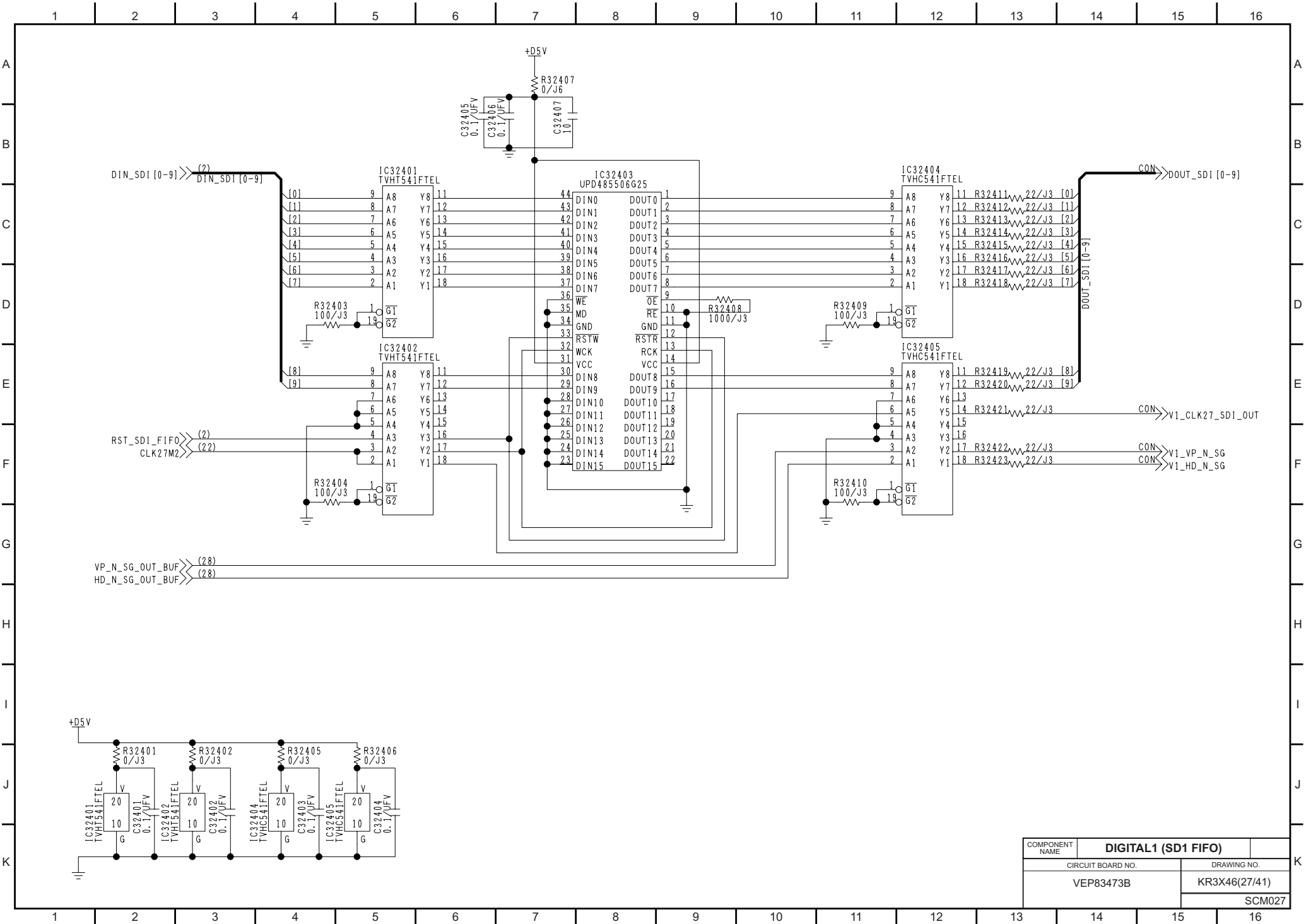


COMPONENT NAME		DIGITAL1 (OUT TBC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(25/41)	
		SCM025	

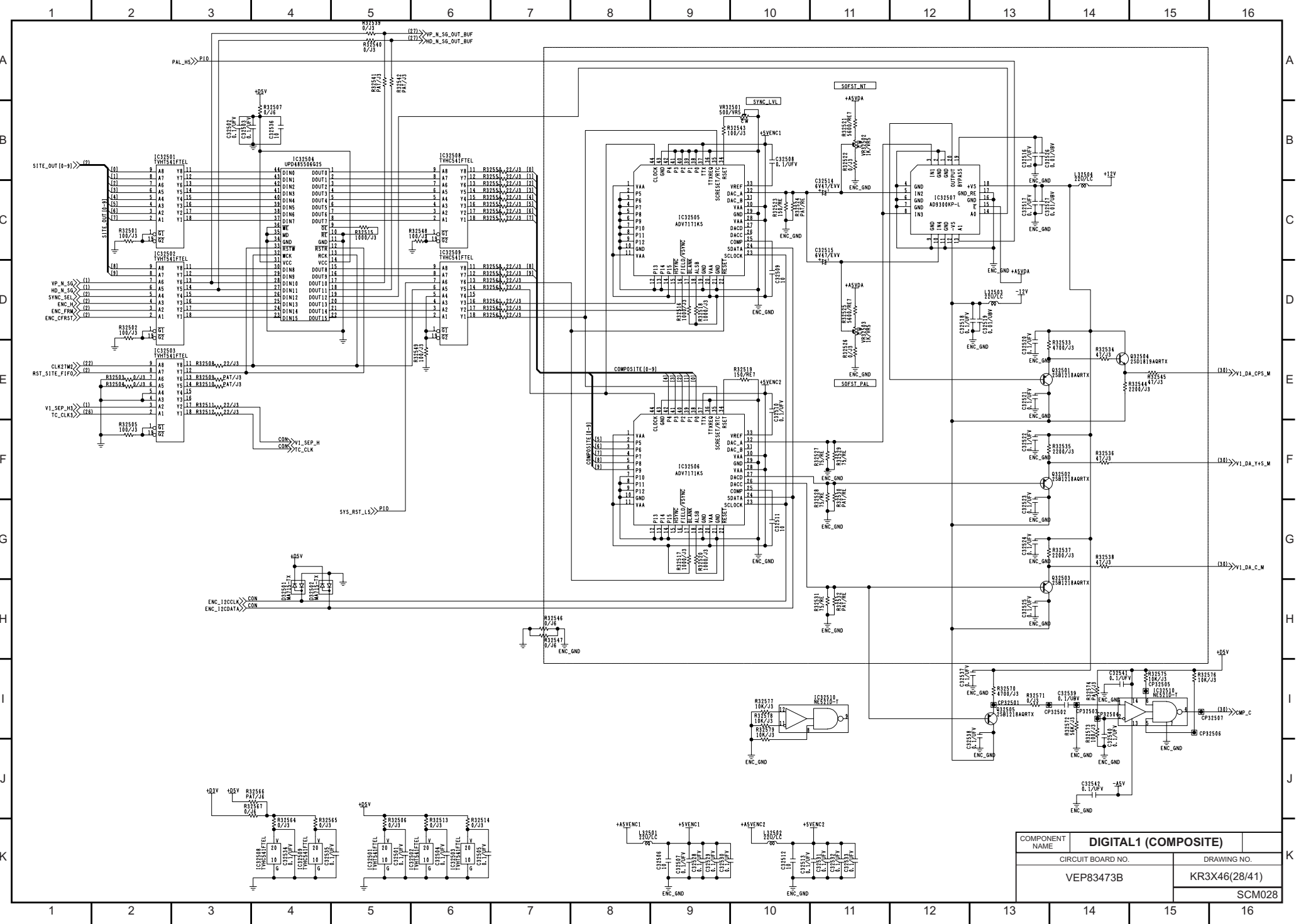






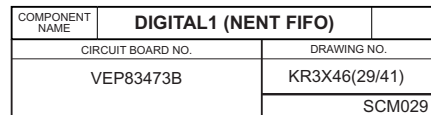






DIGITAL1 (COMPOSITE)		
CIRCUIT BOARD NO.		DRAWING NO.
VEP83473B		KR3X46(28/41)
SCM028		

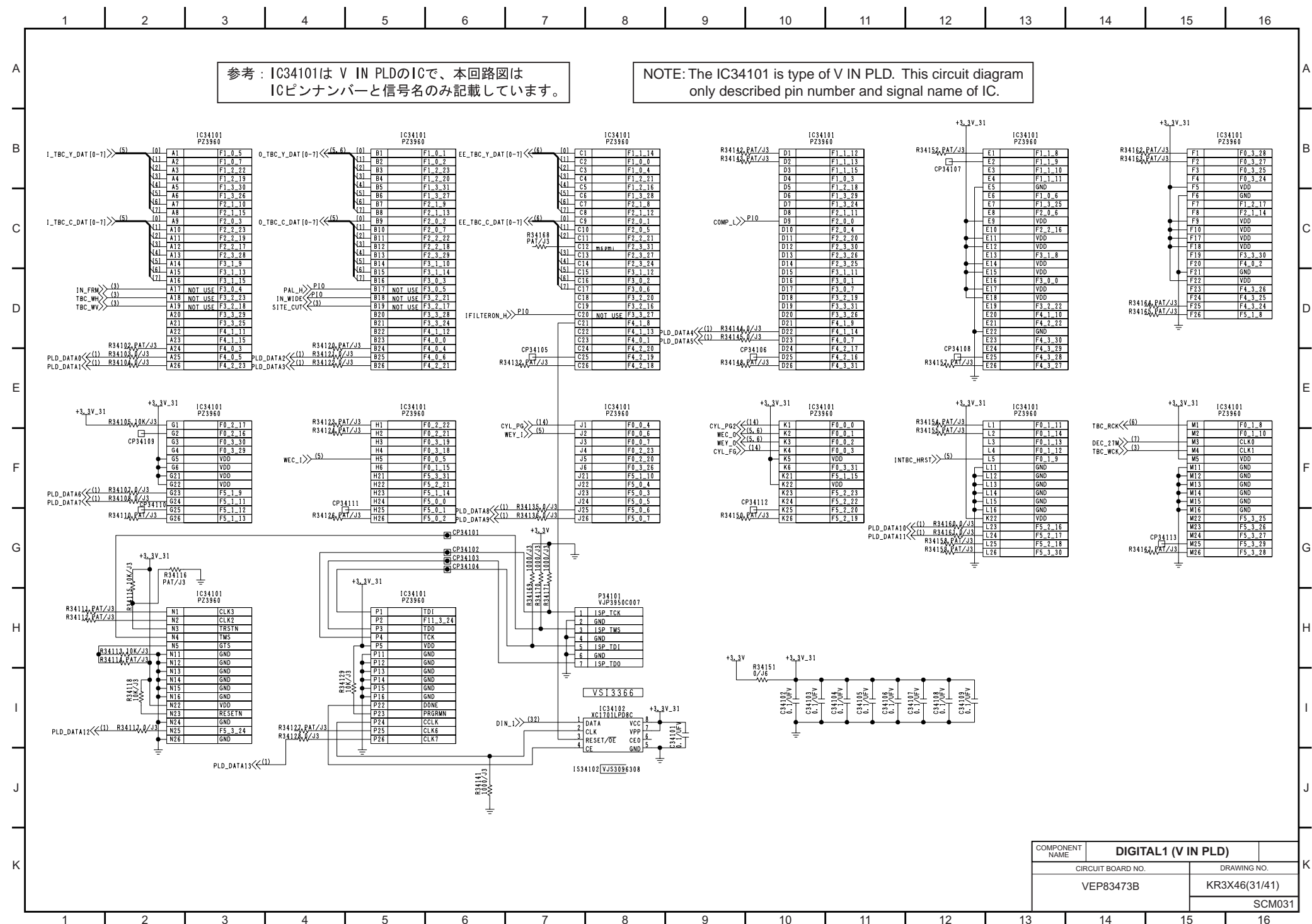




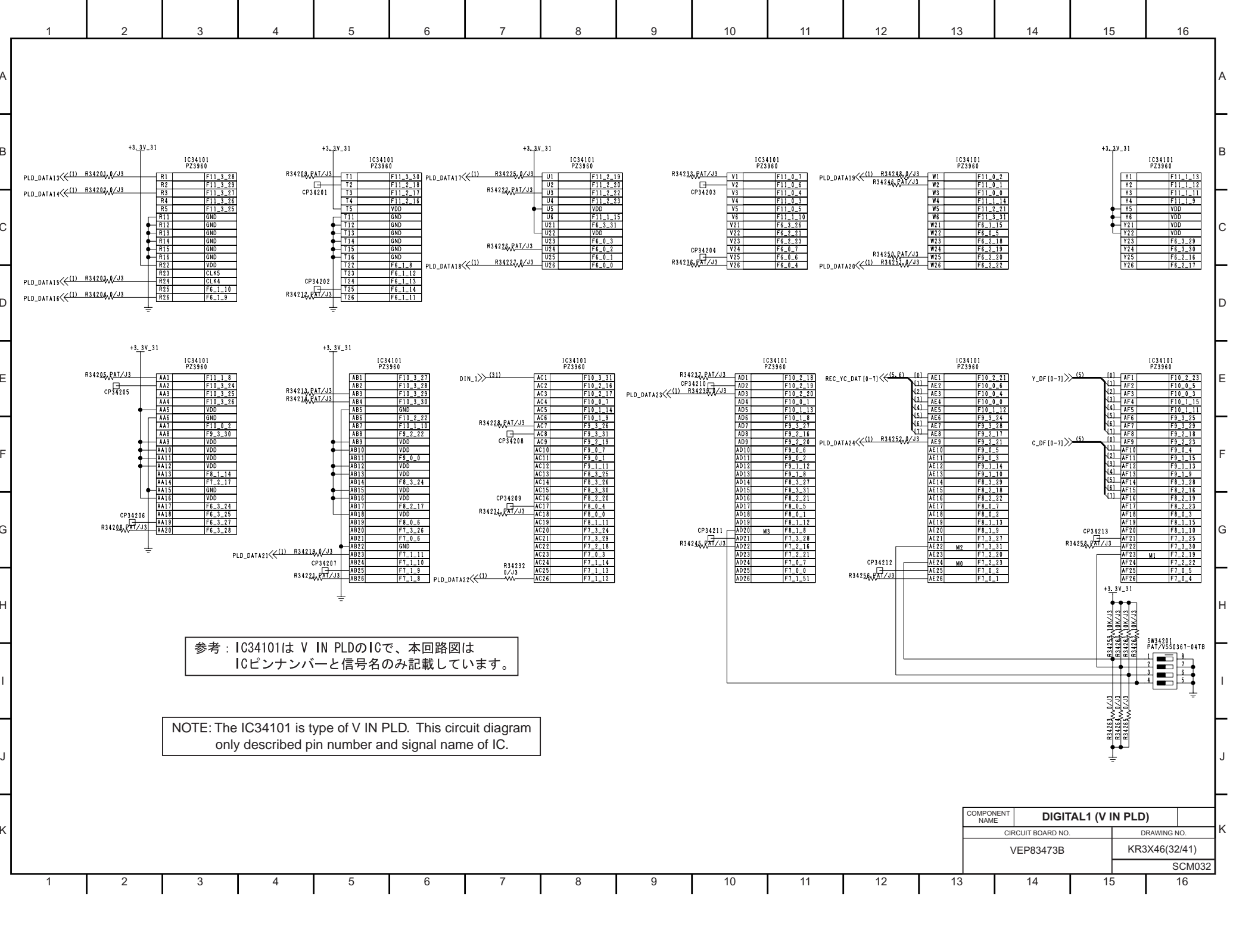




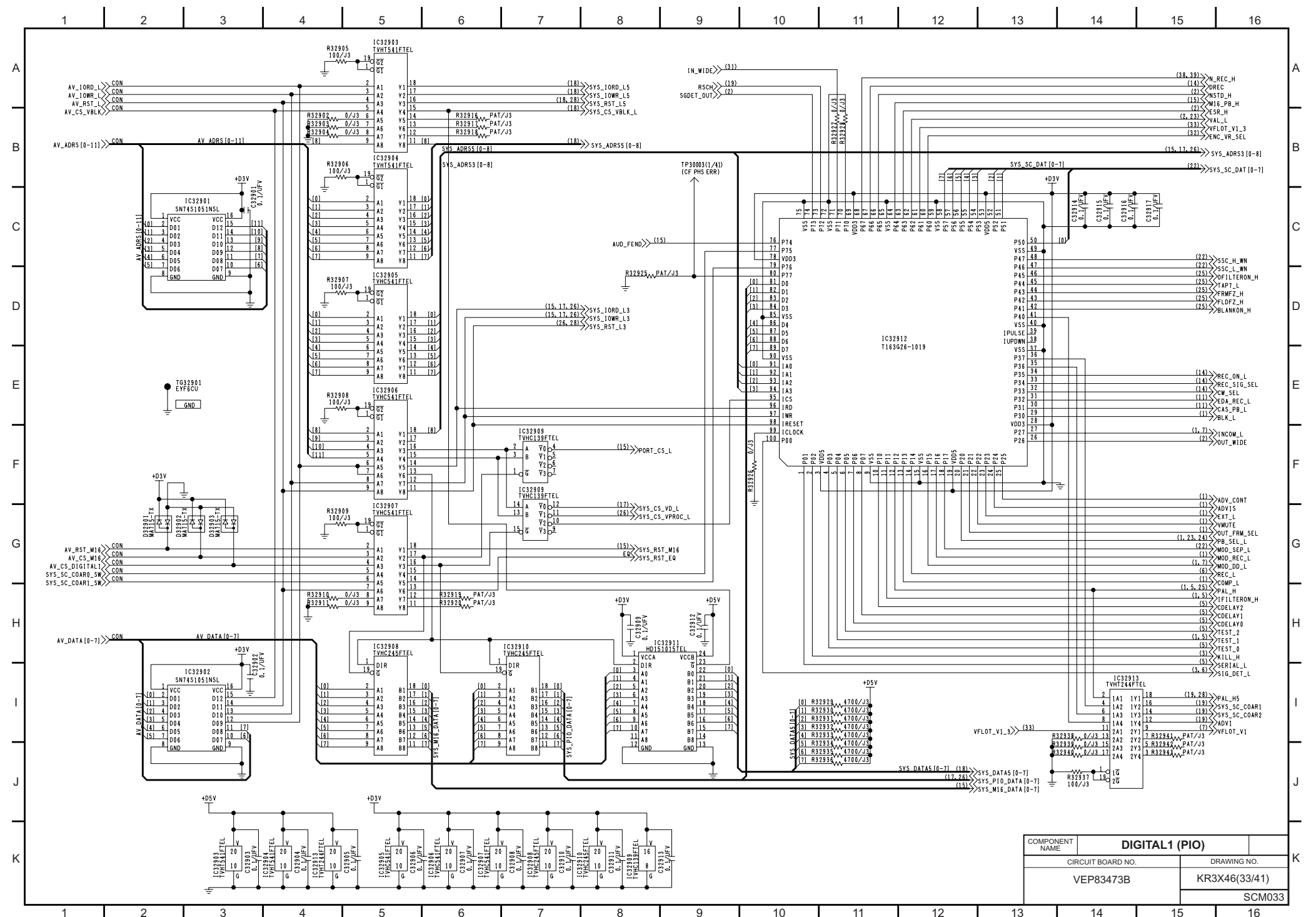




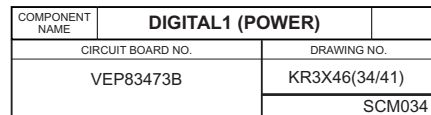




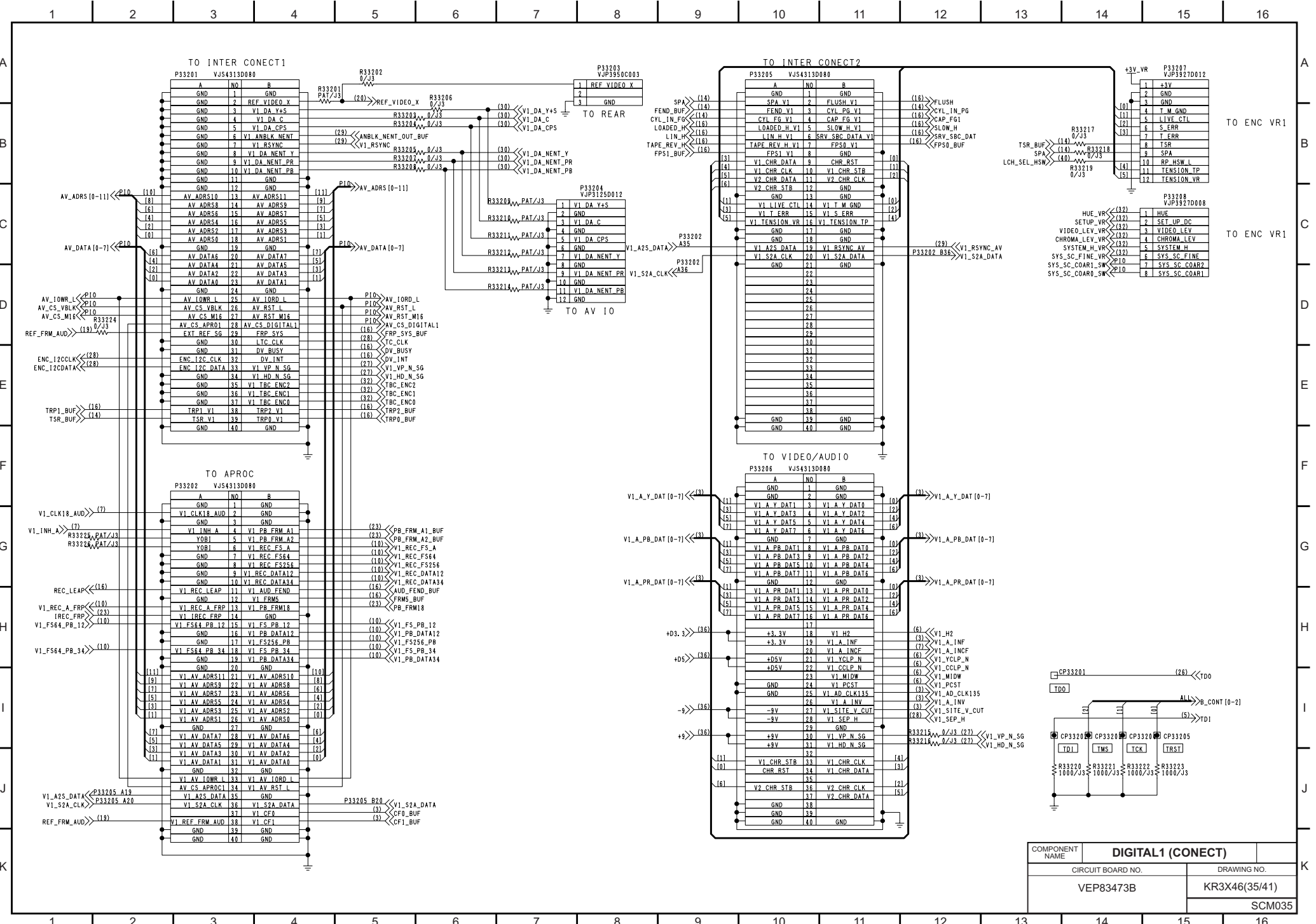






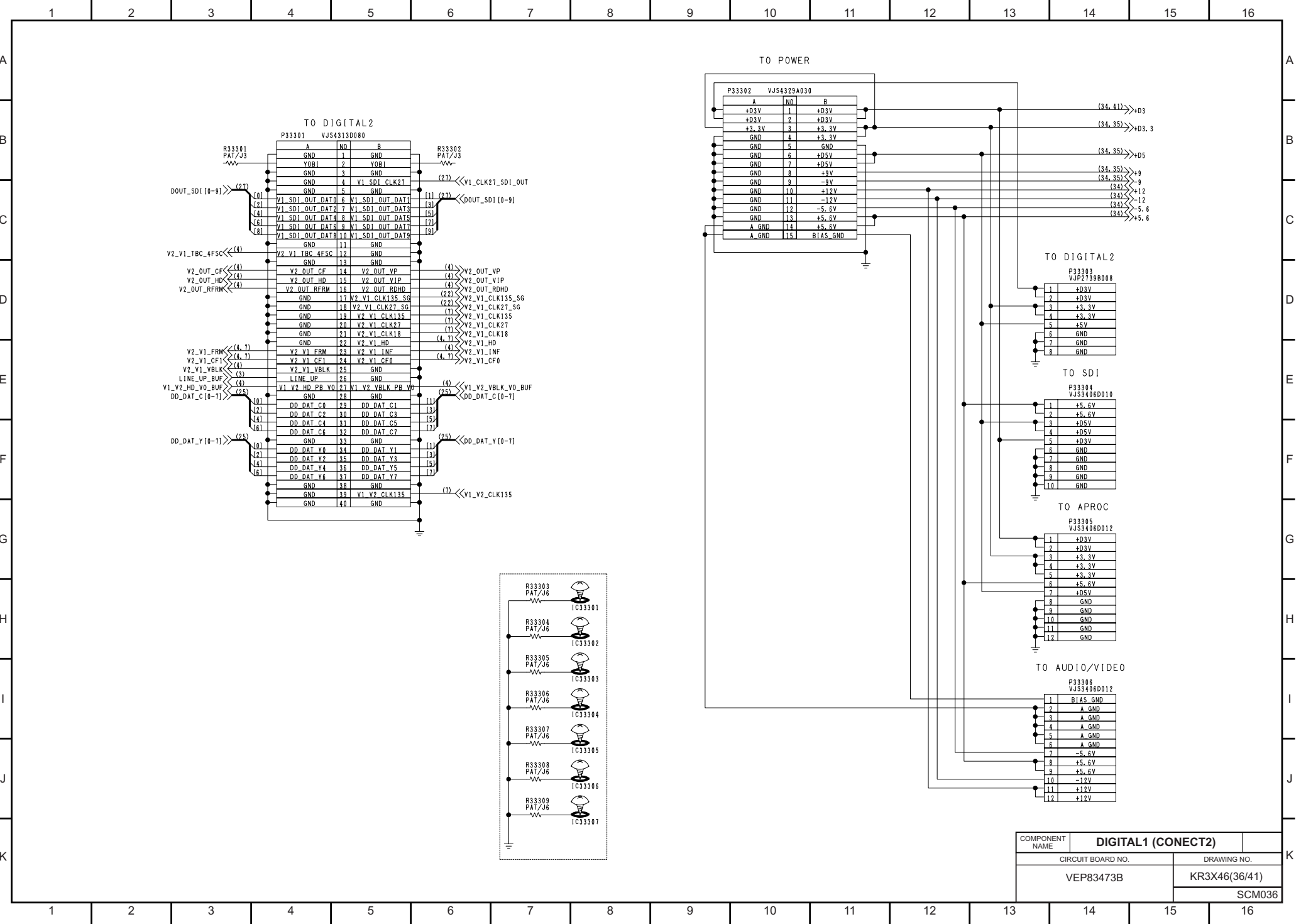






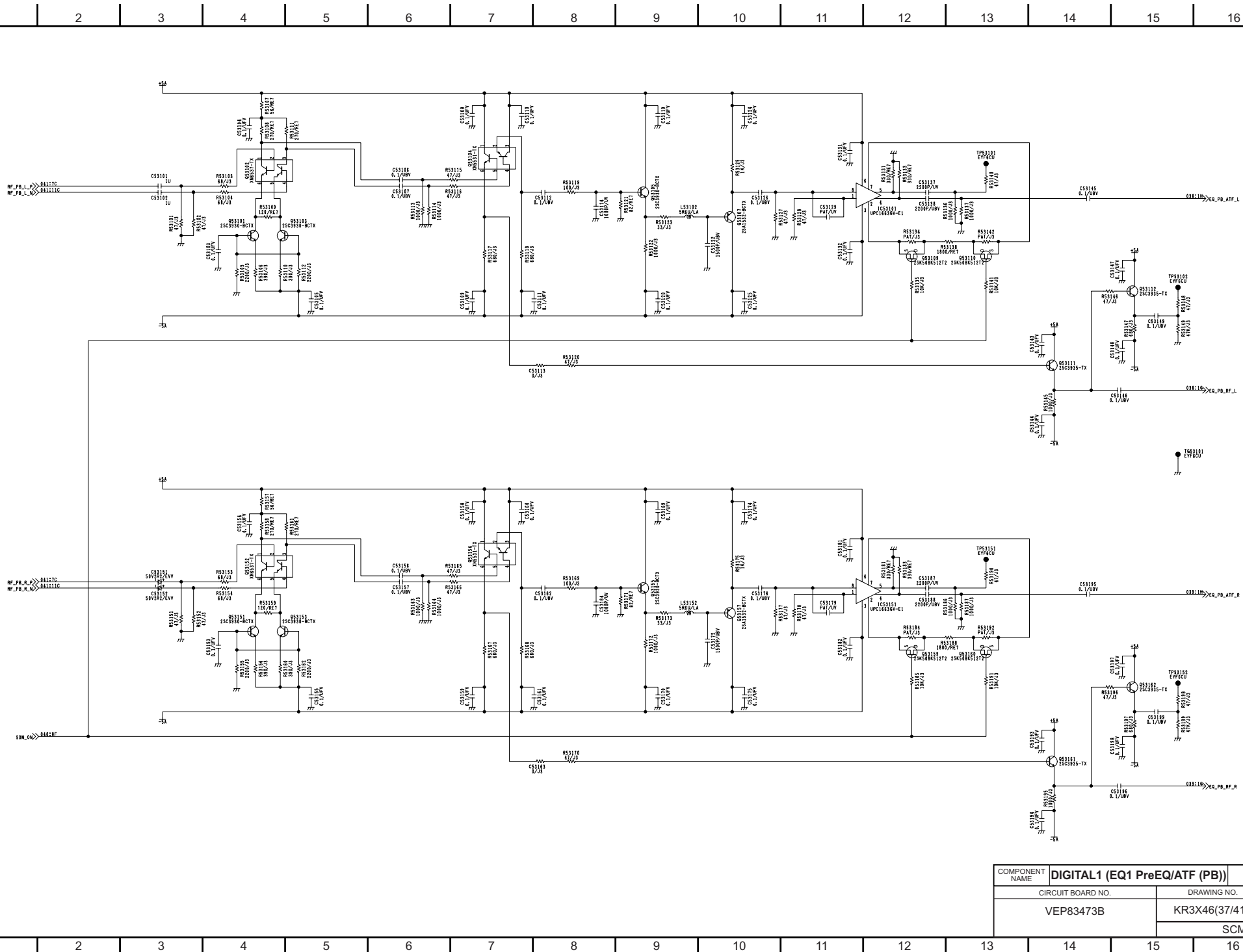
COMPONENT NAME		DIGITAL1 (CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(35/41)	
		SCM035	



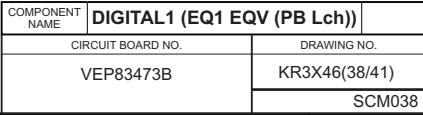


COMPONENT NAME		DIGITAL1 (CONECT2)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(36/41)	
		SCM036	



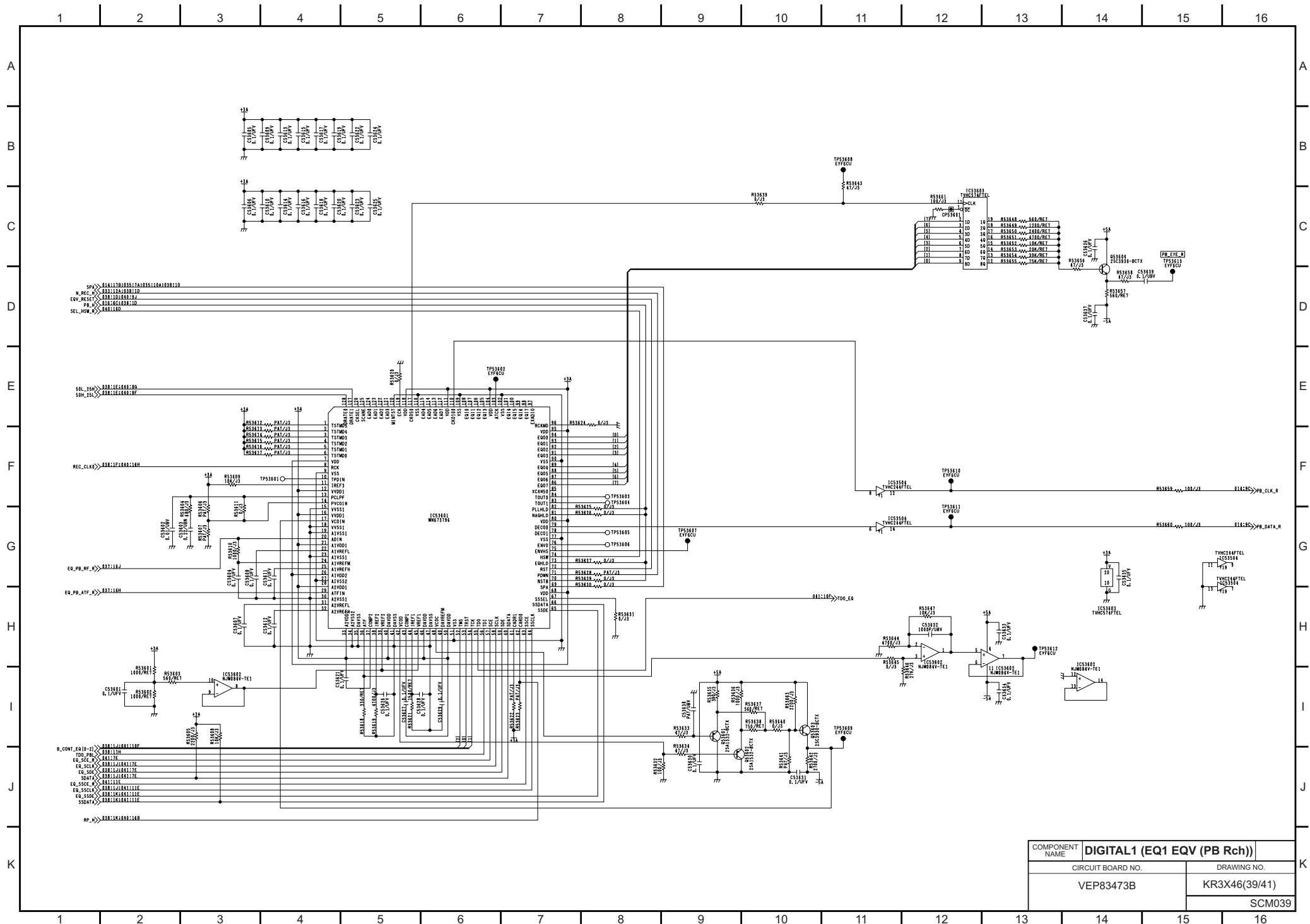






COMPONENT NAME	DIGITAL1 (EQ1 EQV (PB Lch))		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83473B		KR3X46(38/41)	
		SCM038	





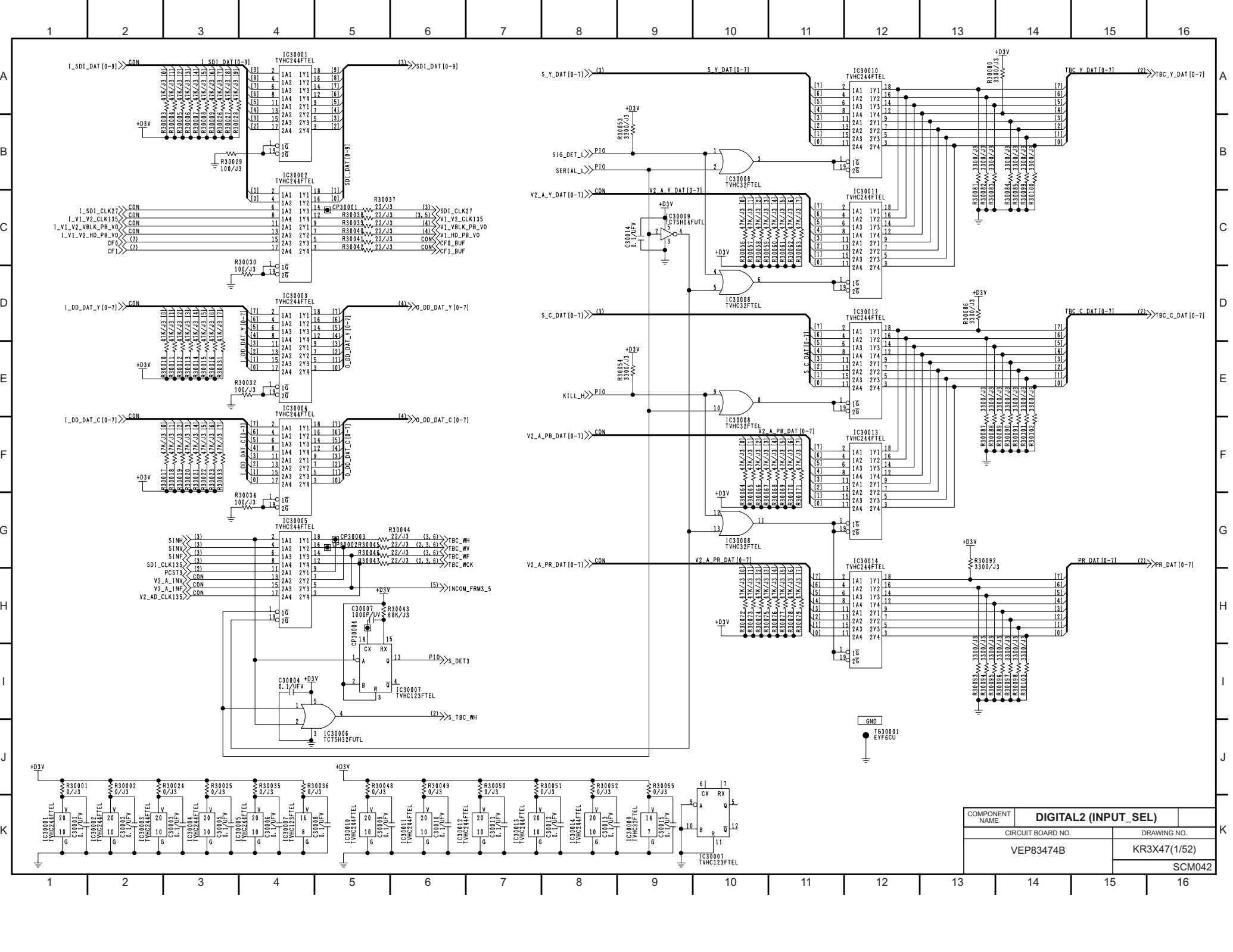






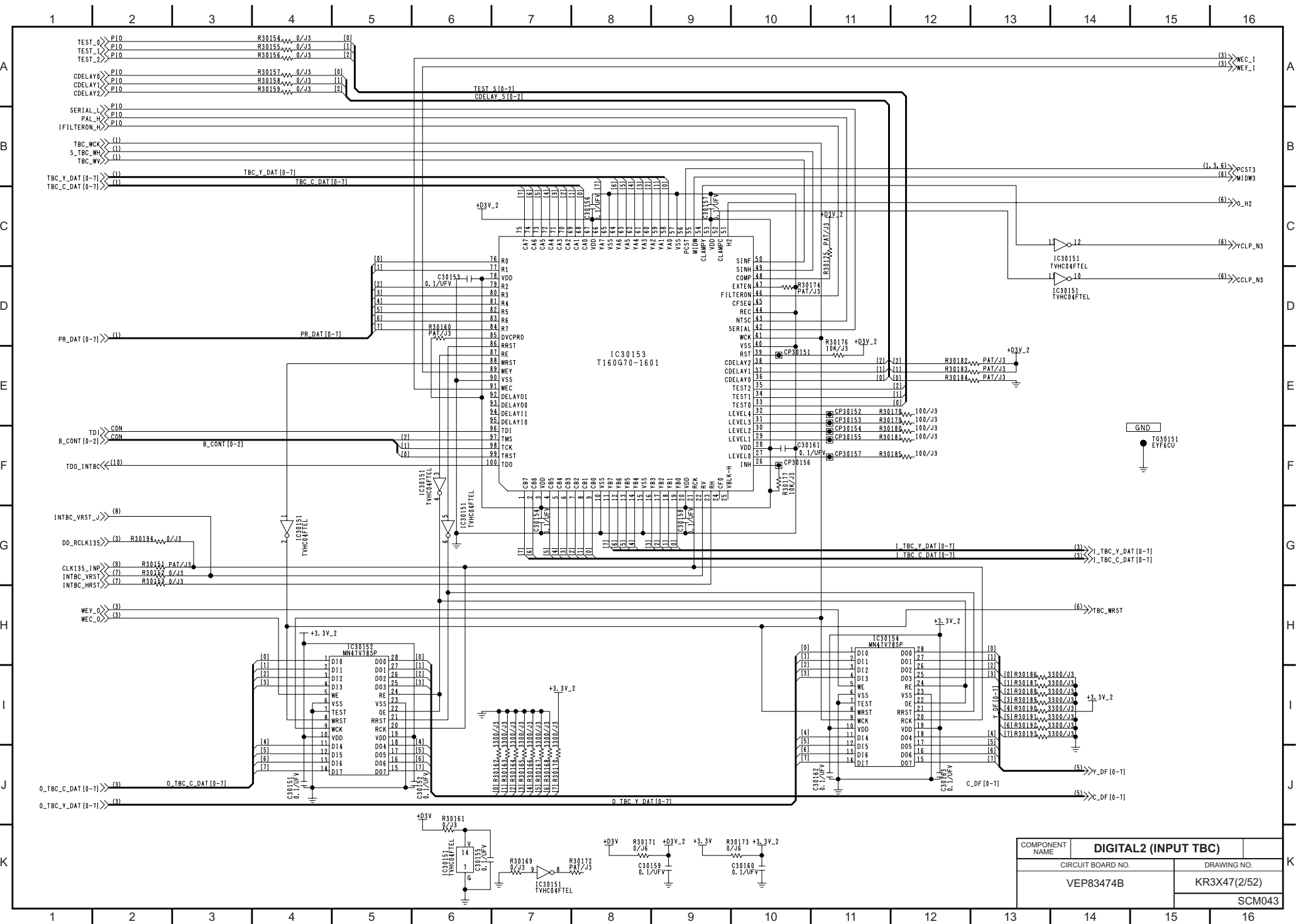






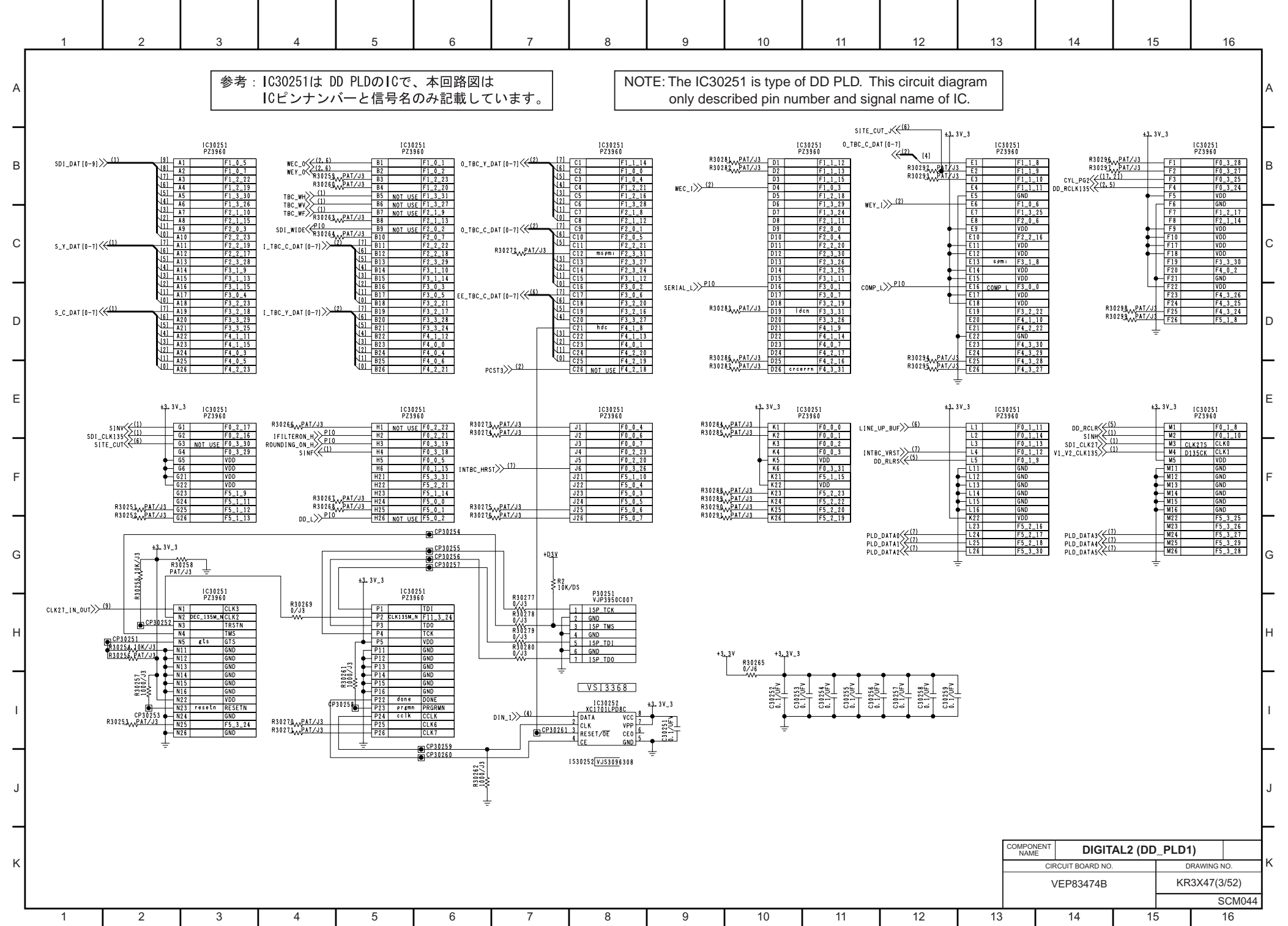
COMPONENT NAME	DIGITAL2 (INPUT_SEL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(1/52)
SCM042		



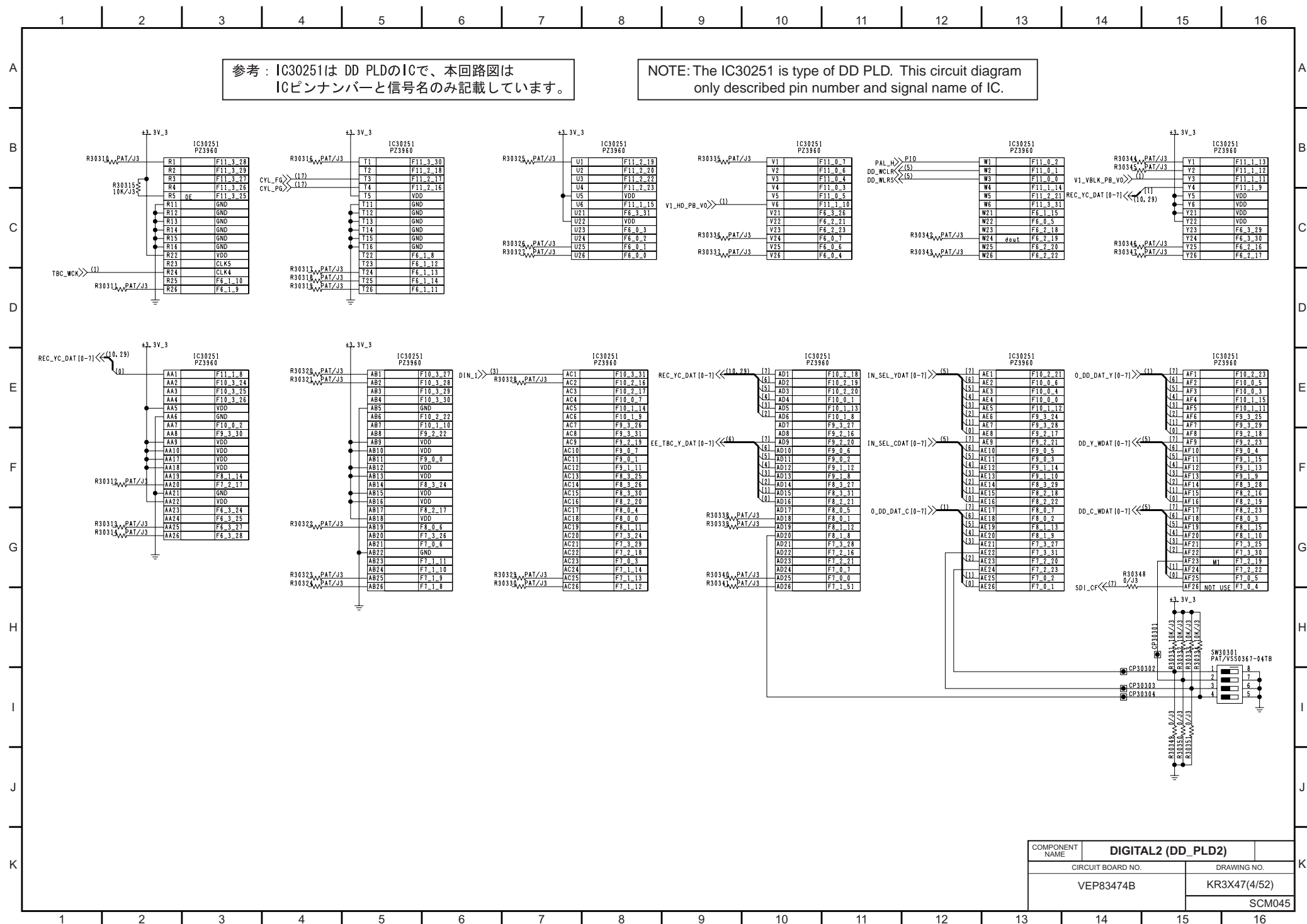


COMPONENT NAME		DIGITAL2 (INPUT TBC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(2/52)	
		SCM043	

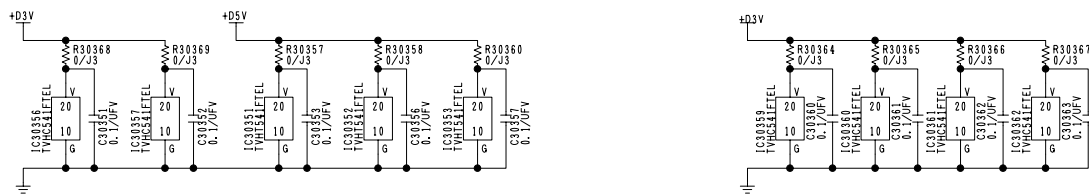




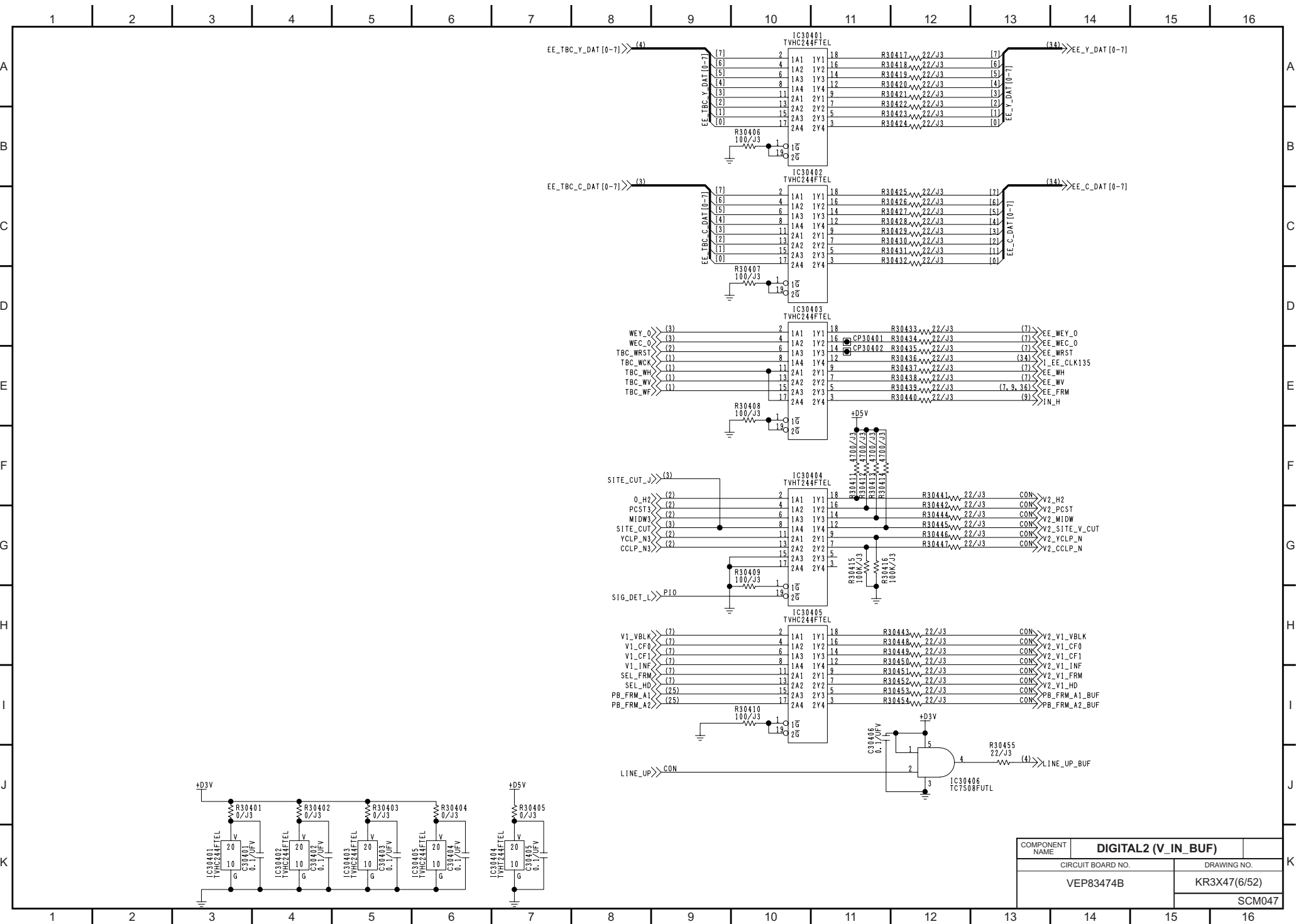








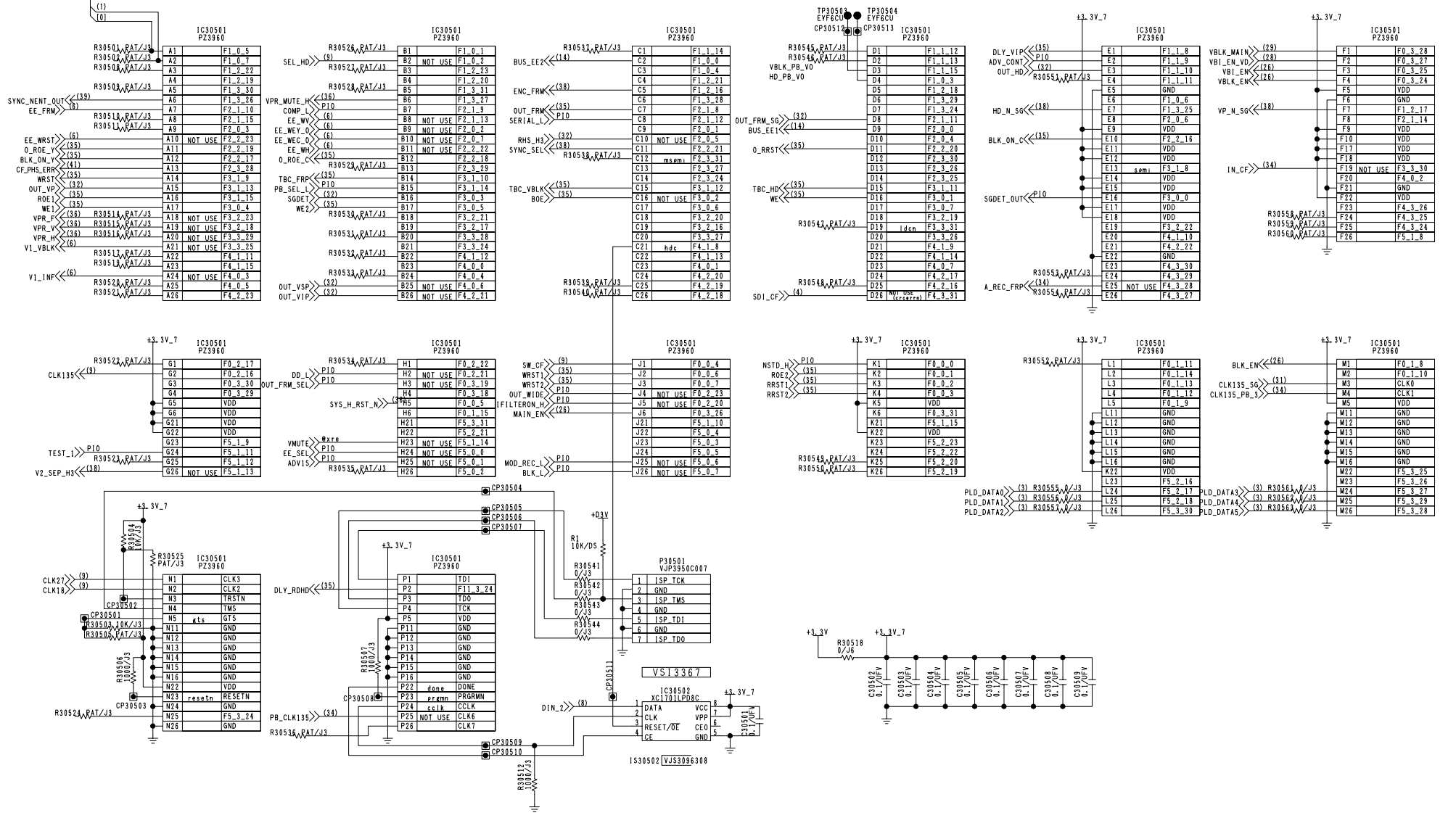






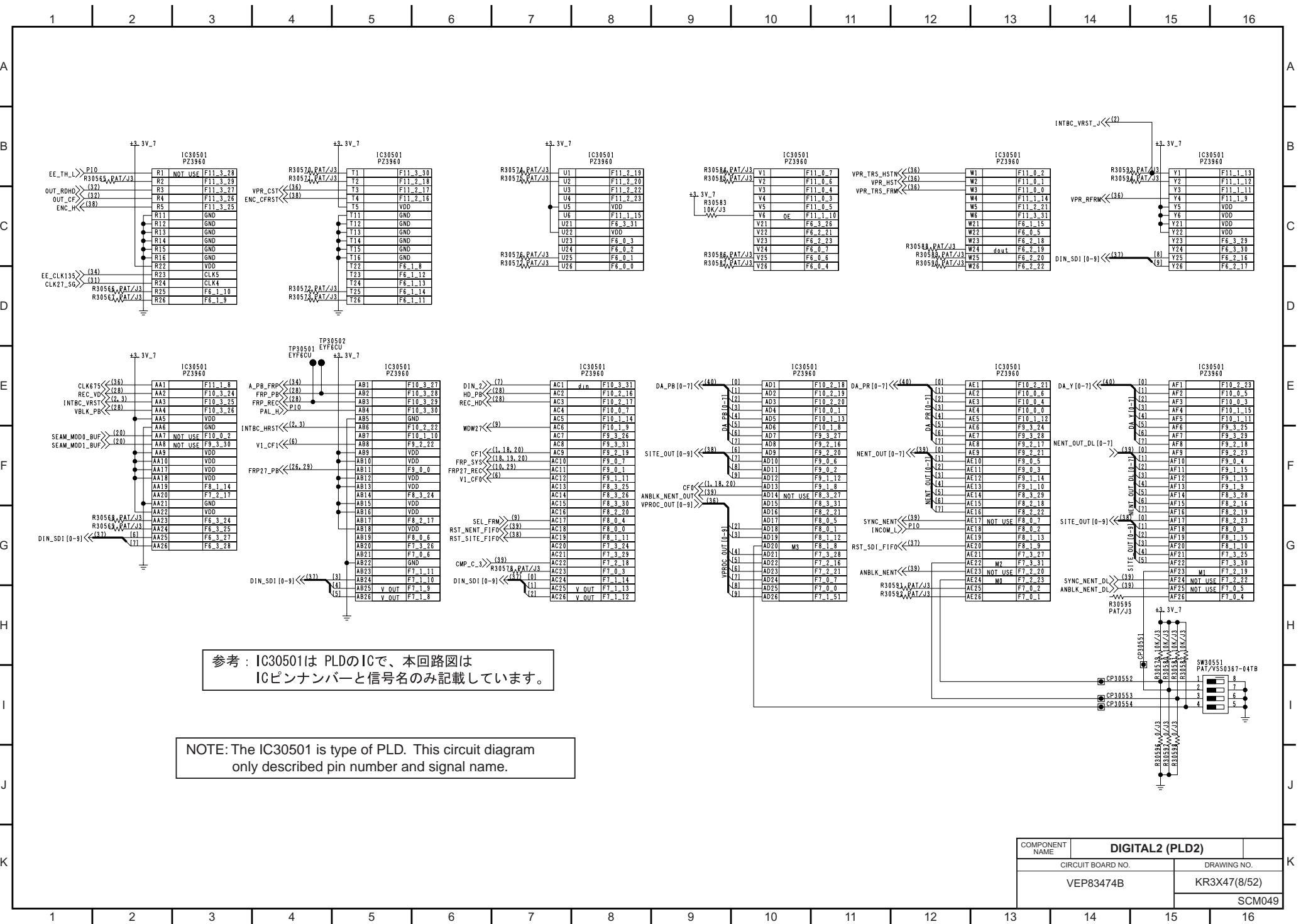
参考：IC30501は PLDのICで、本回路図は ICピンナンバーと信号名の記載しています。

NOTE: The IC30501 is type of PLD. This circuit diagram only described pin number and signal name.

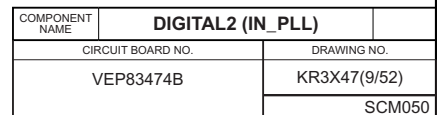


COMPONENT NAME	DIGITAL2 (PLD1)
CIRCUIT BOARD NO.	DRAWING NO.
VEP83474B	KR3X47(7/52)
	SCM048



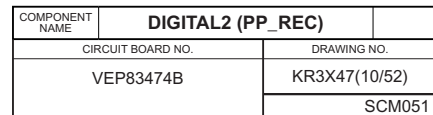




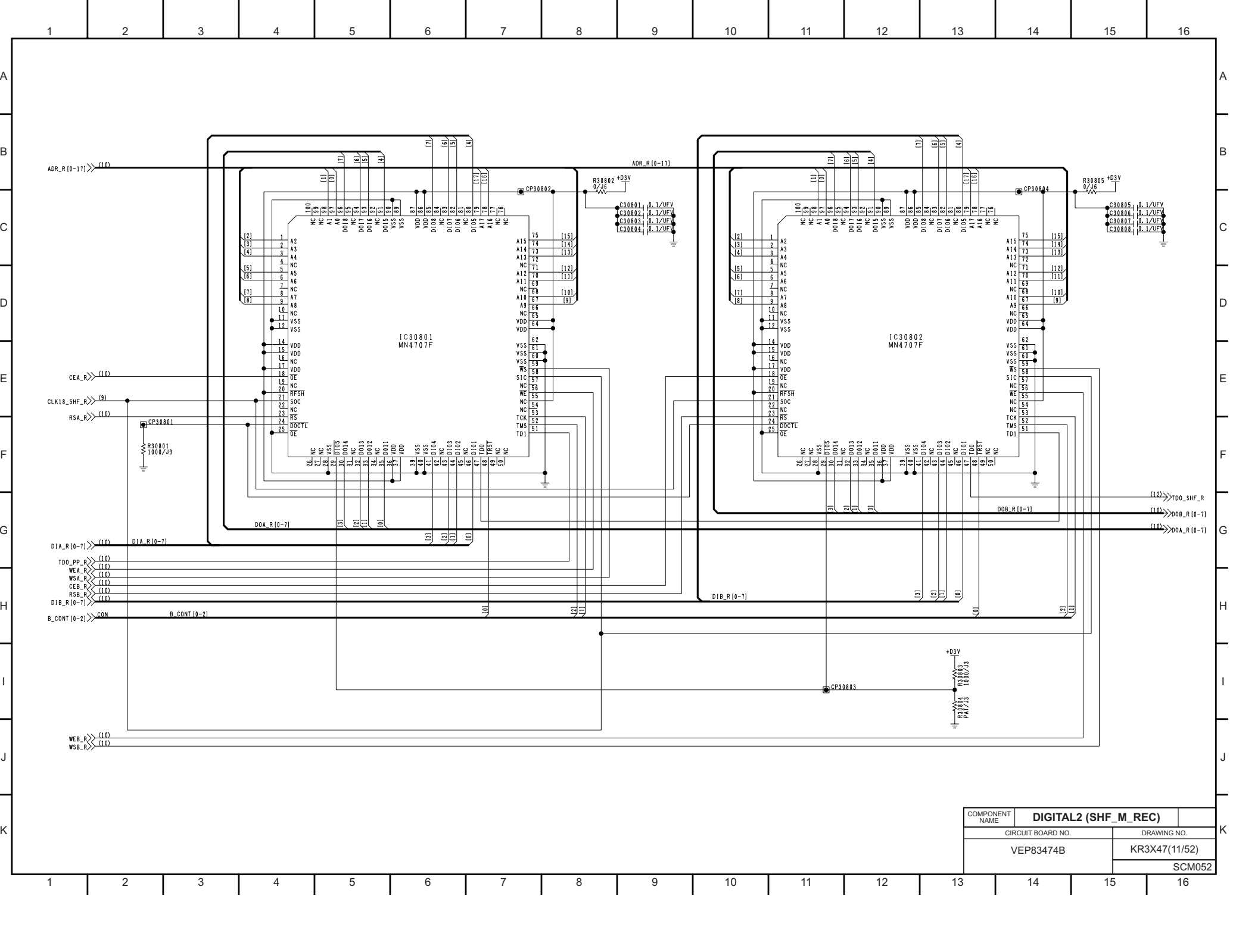


COMPONENT NAME	<b>DIGITAL2 (IN_PLL)</b>		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(9/52)	
		SCM050	



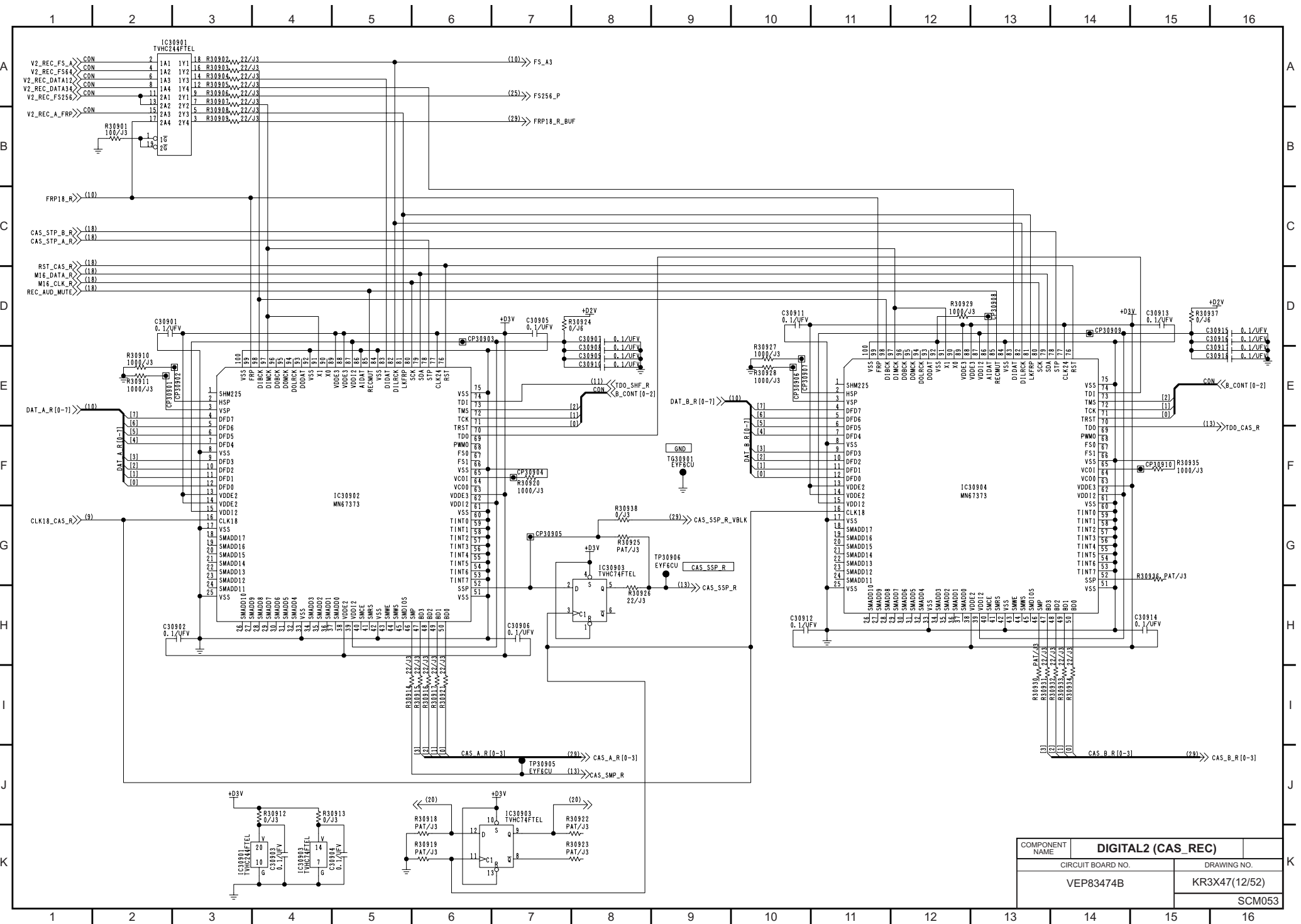




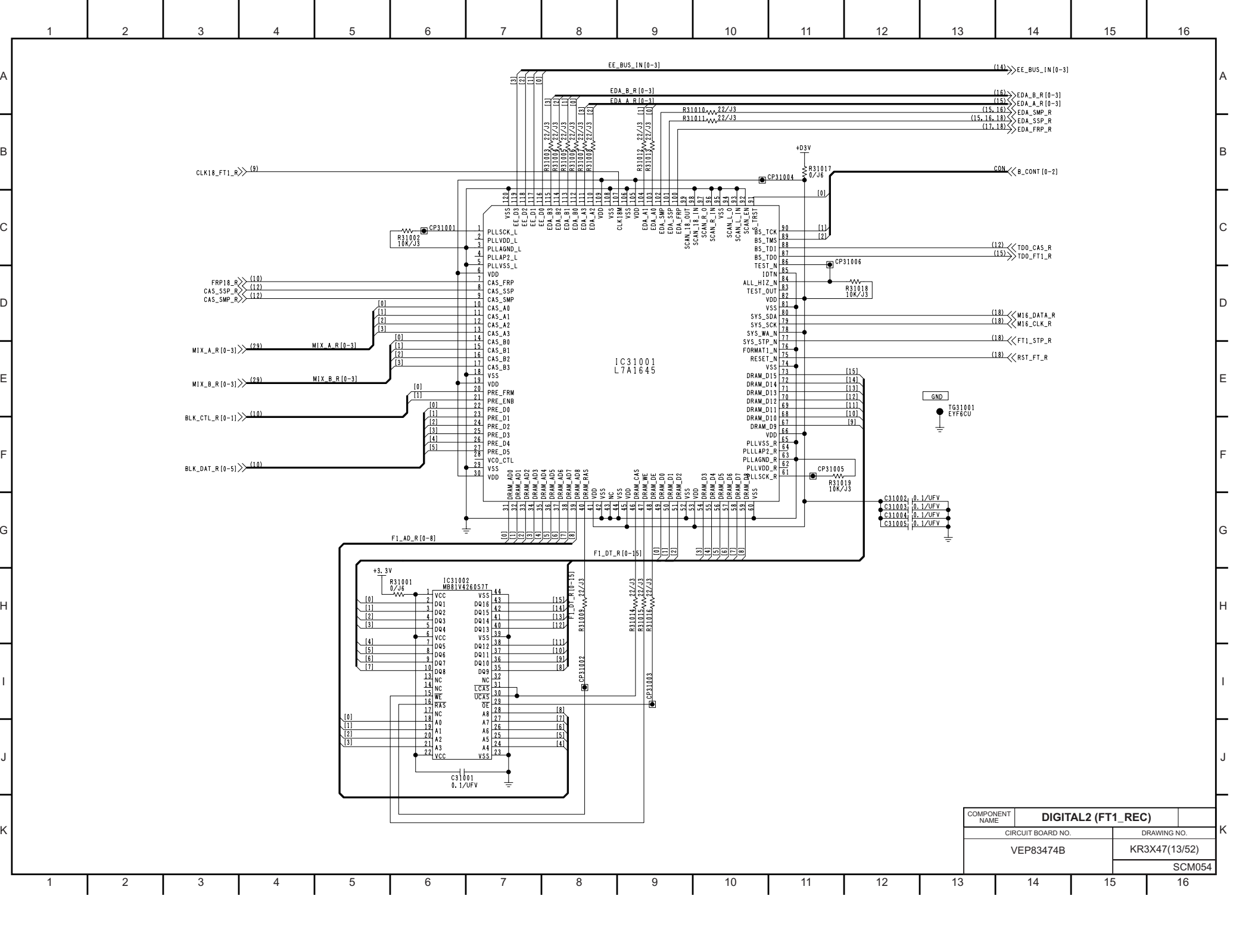


COMPONENT NAME	DIGITAL2 (SHF_M_REC)	
CIRCUIT BOARD NO.	VEP8X474B	DRAWING NO.
		KR3X47(11/52)
		SCM052



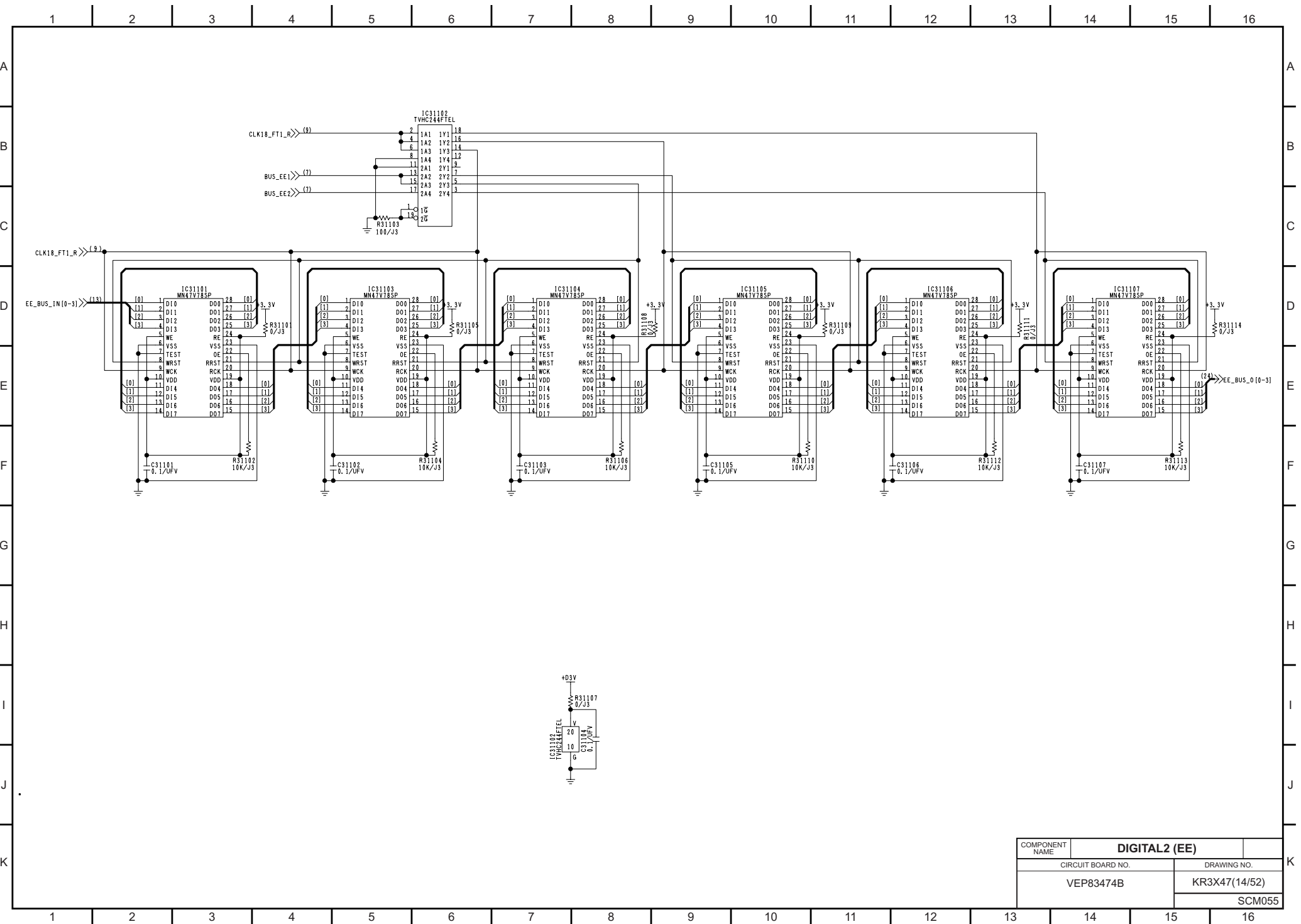






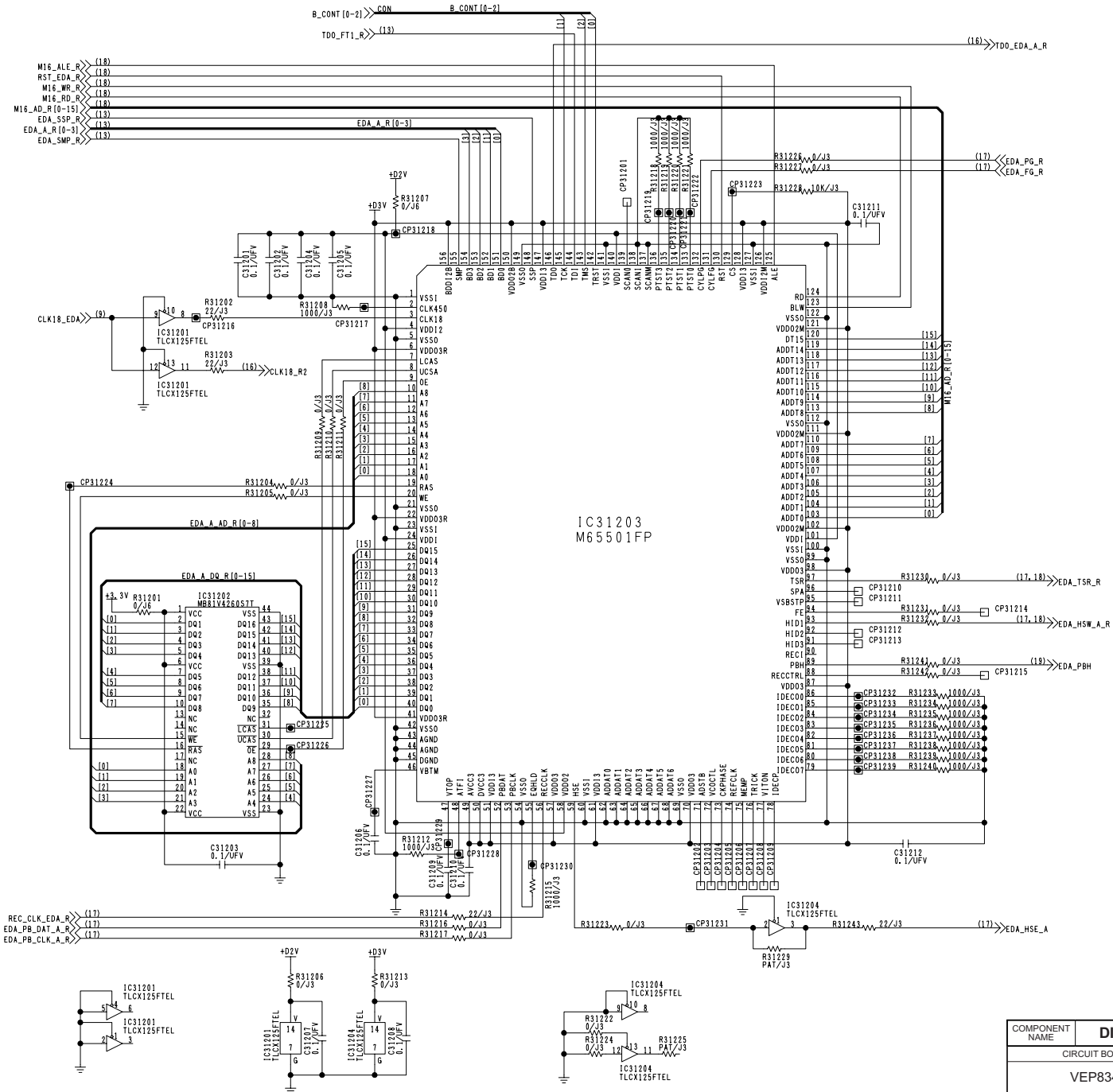
COMPONENT NAME		DIGITAL2 (FT1_REC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(13/52)	
		SCM054	





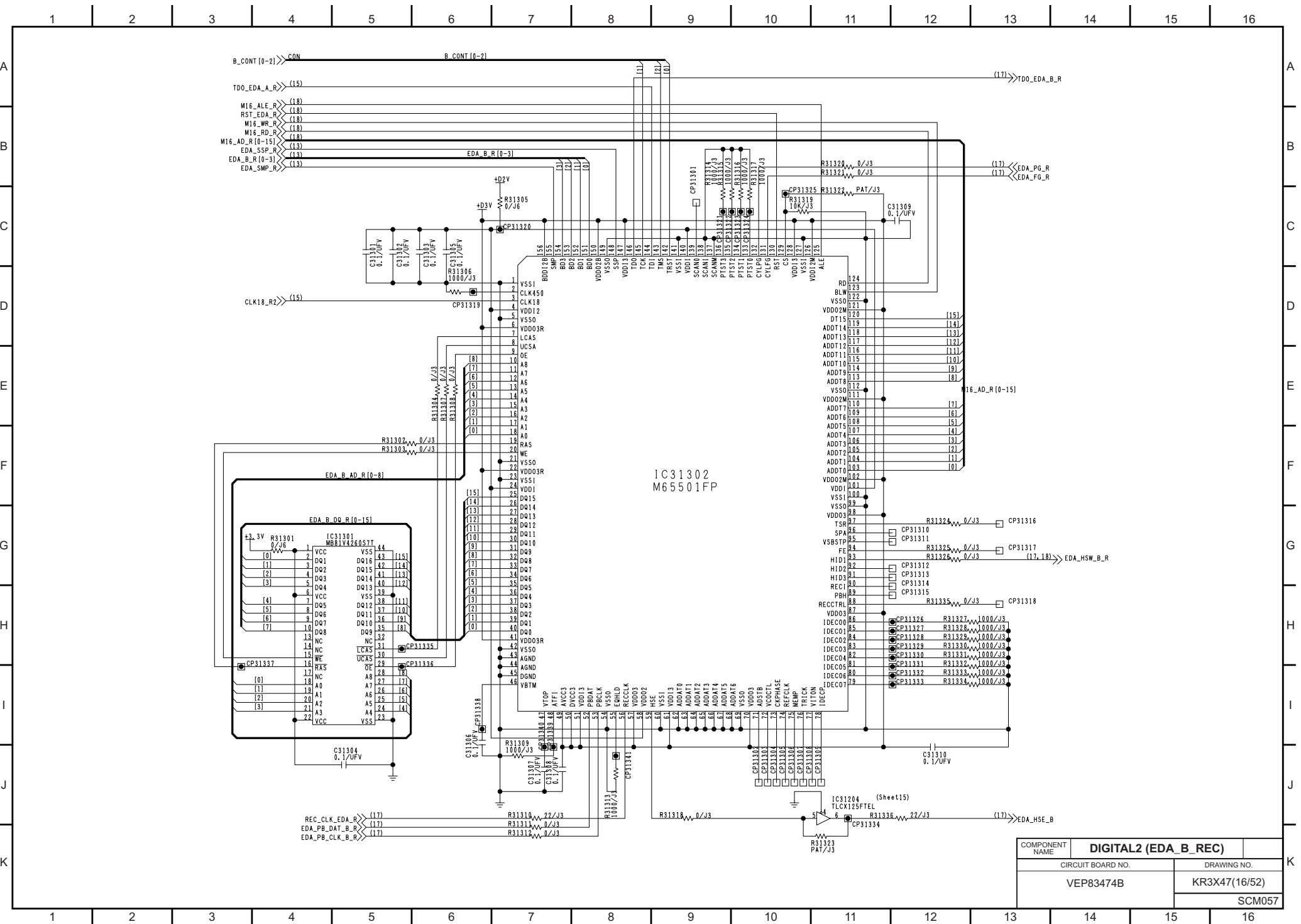
COMPONENT NAME	DIGITAL2 (EE)	
CIRCUIT BOARD NO.	VEP83474B	DRAWING NO.
		KR3X47(14/52)
		SCM055





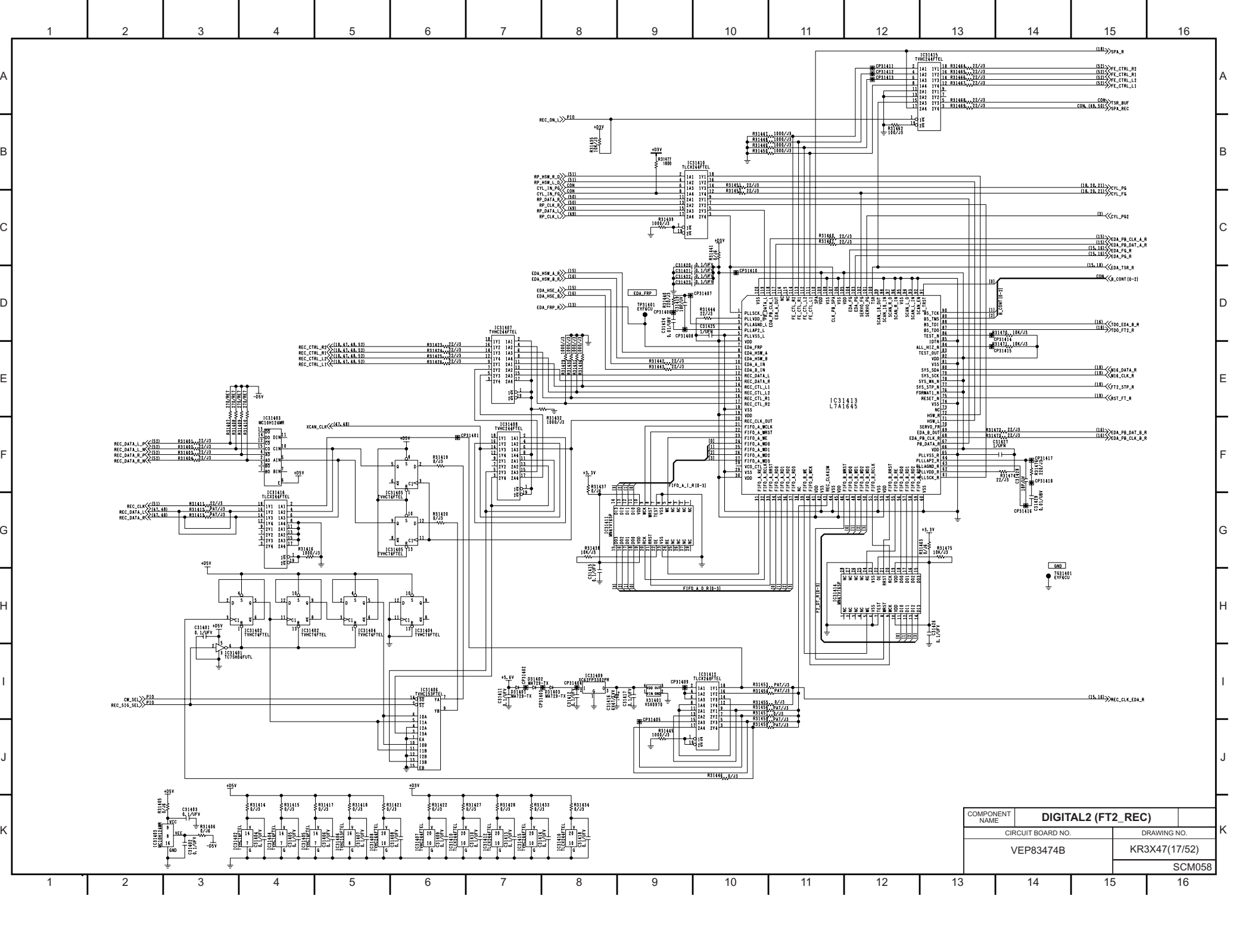
COMPONENT NAME		DIGITAL2 (EDA_A_REC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(15/52)	
		SCM056	





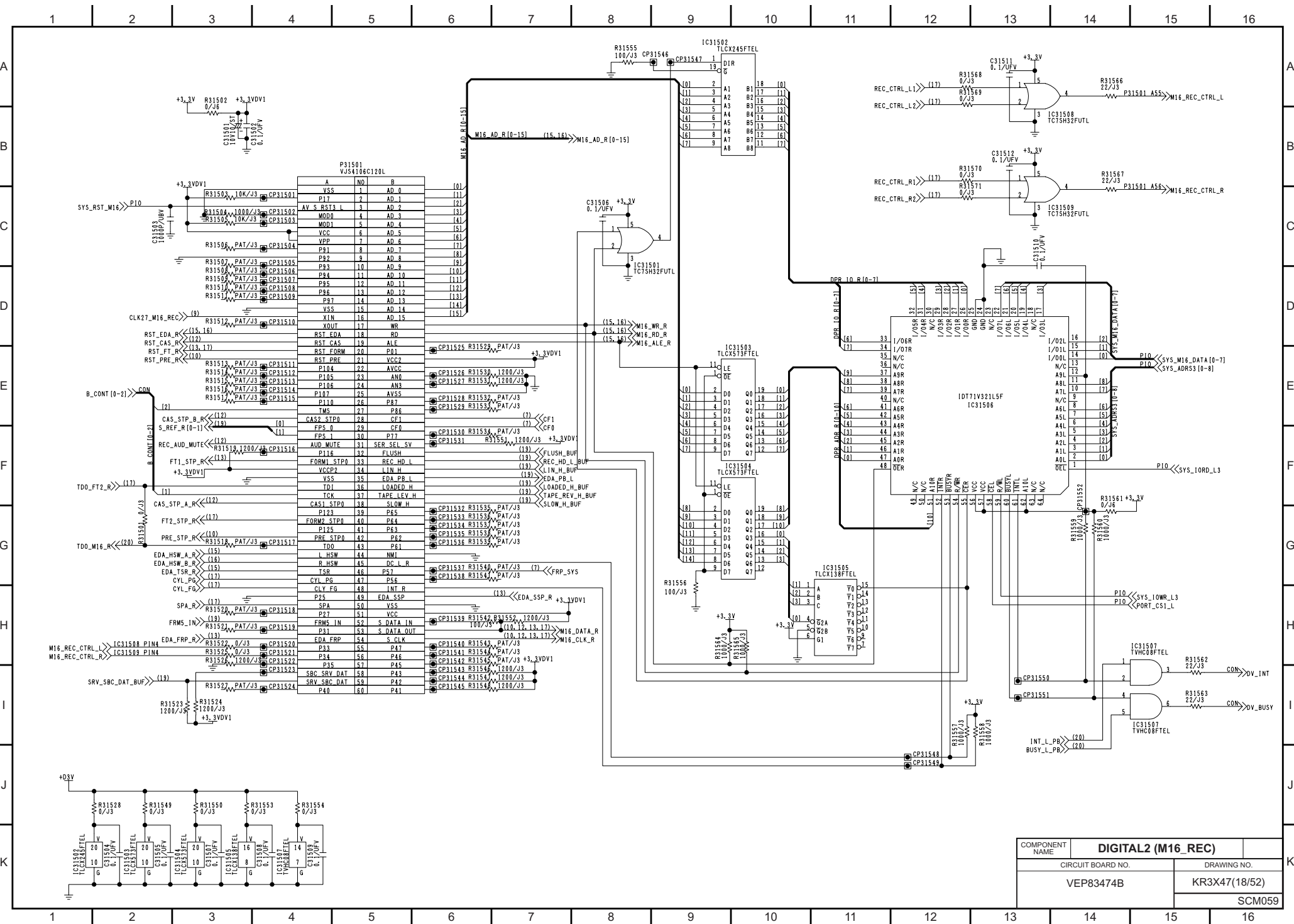
COMPONENT NAME		DIGITAL2 (EDA_B_REC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(16/52)	
		SCM057	





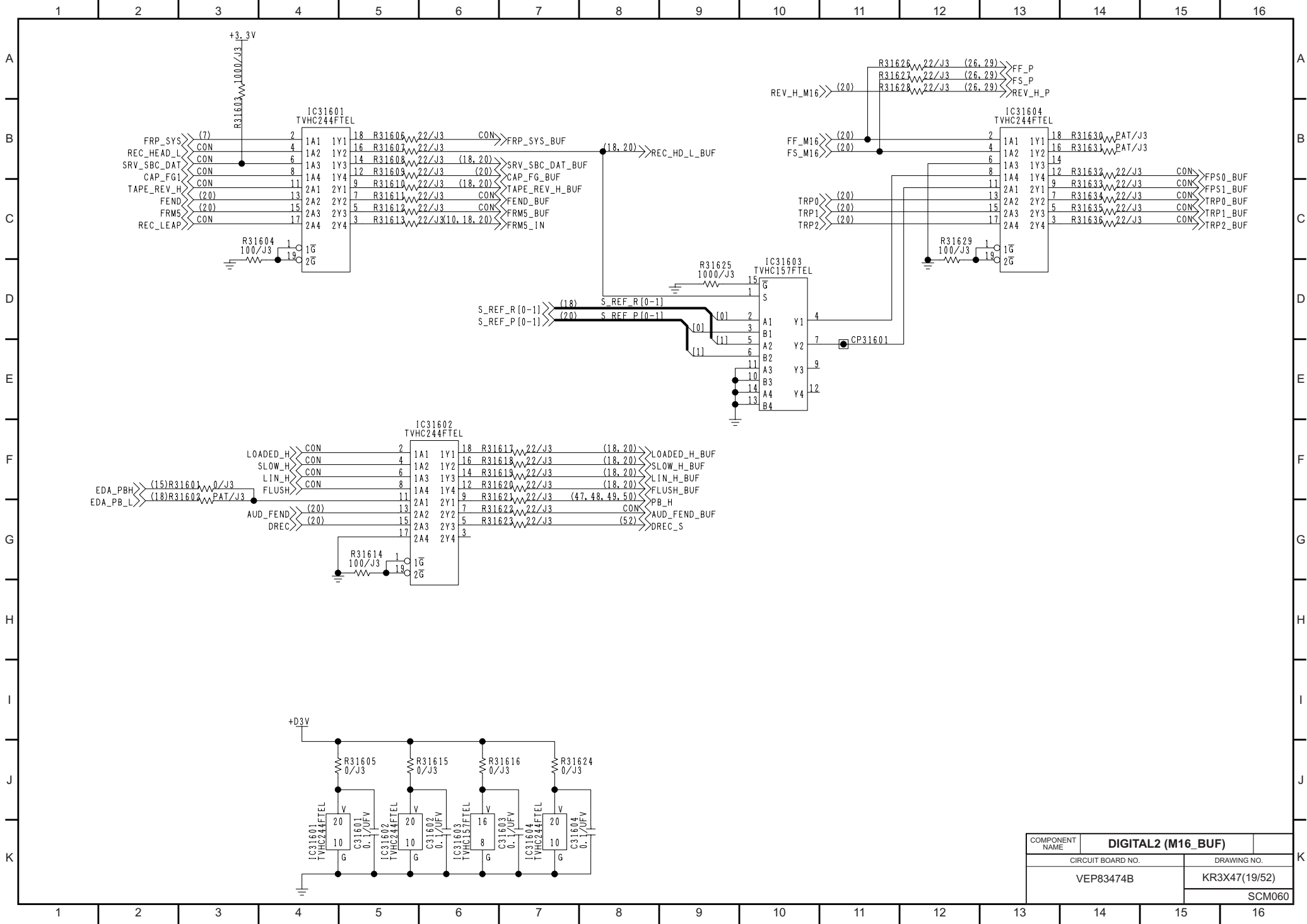
COMPONENT NAME		DIGITAL2 (FT2_REC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(17/52)	
		SCM058	



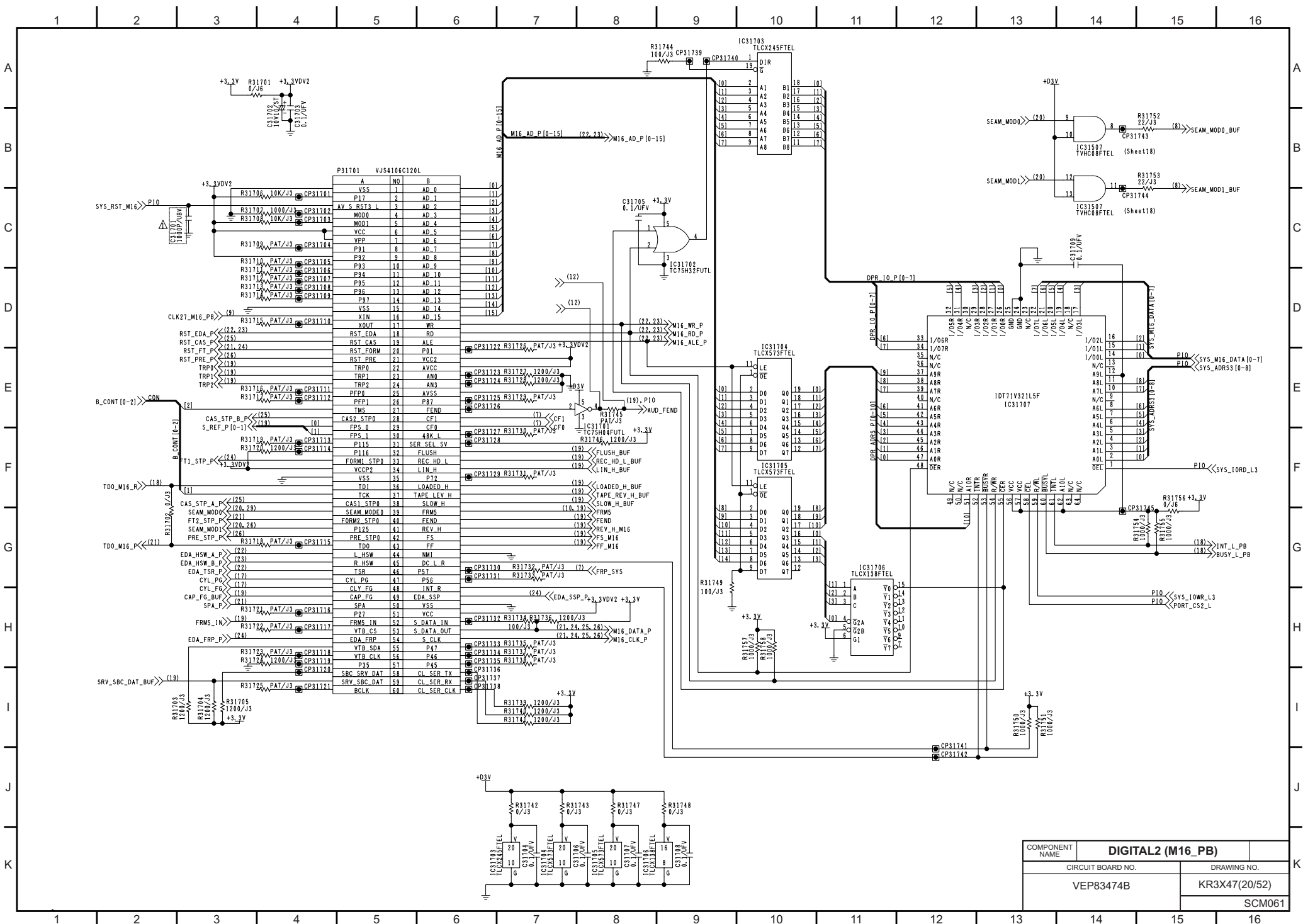


COMPONENT NAME		DIGITAL2 (M16_REC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83747B		KR3X47(18/52)	
		SCM059	

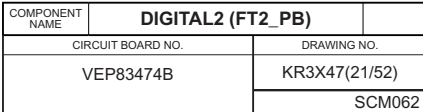






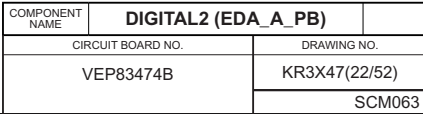




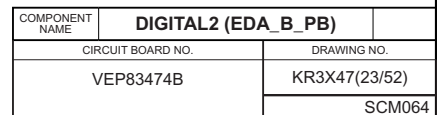


COMPONENT NAME	DIGITAL2 (FT2_PB)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83474B	KR3X47(21/52)	
	SCM062	

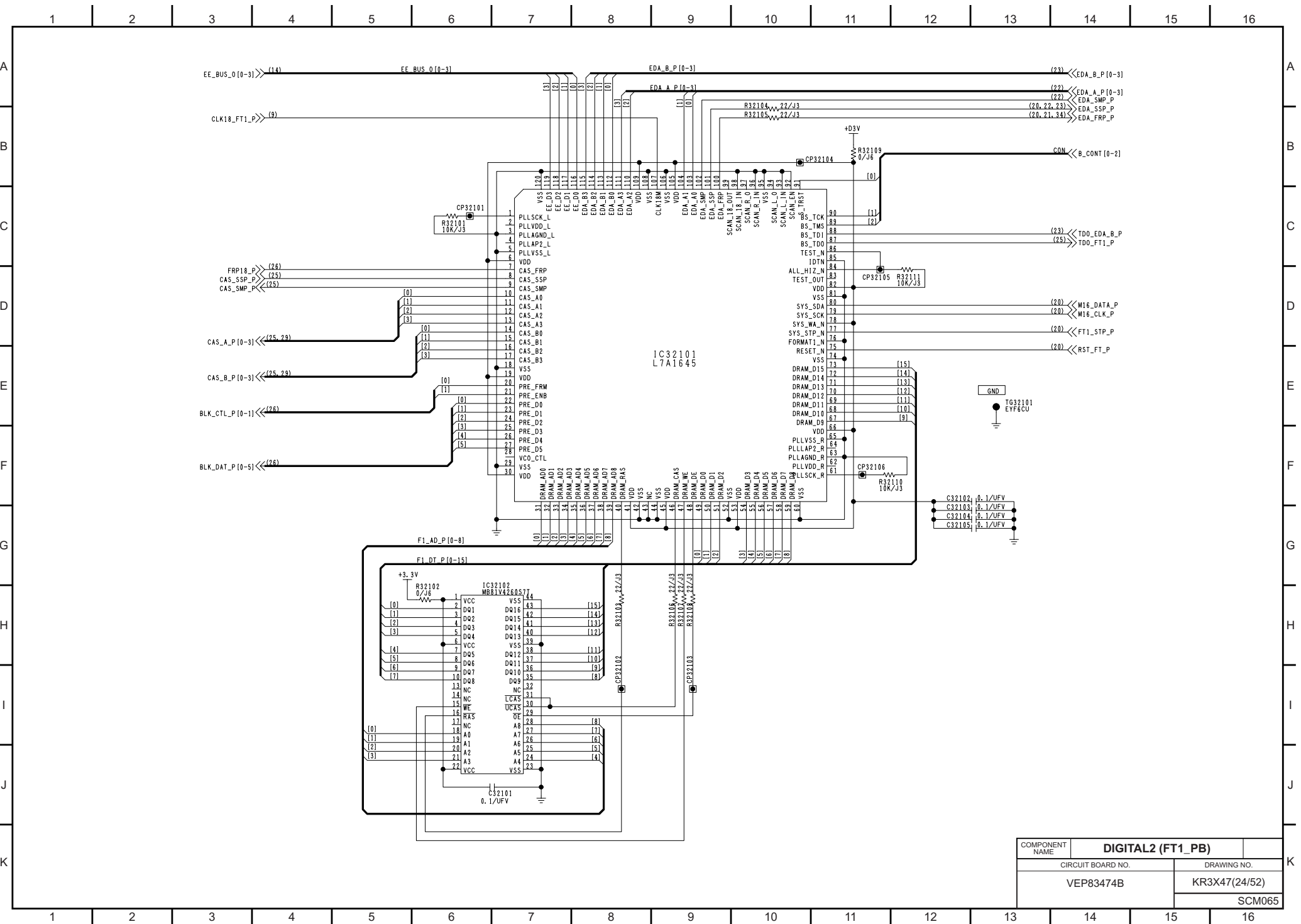






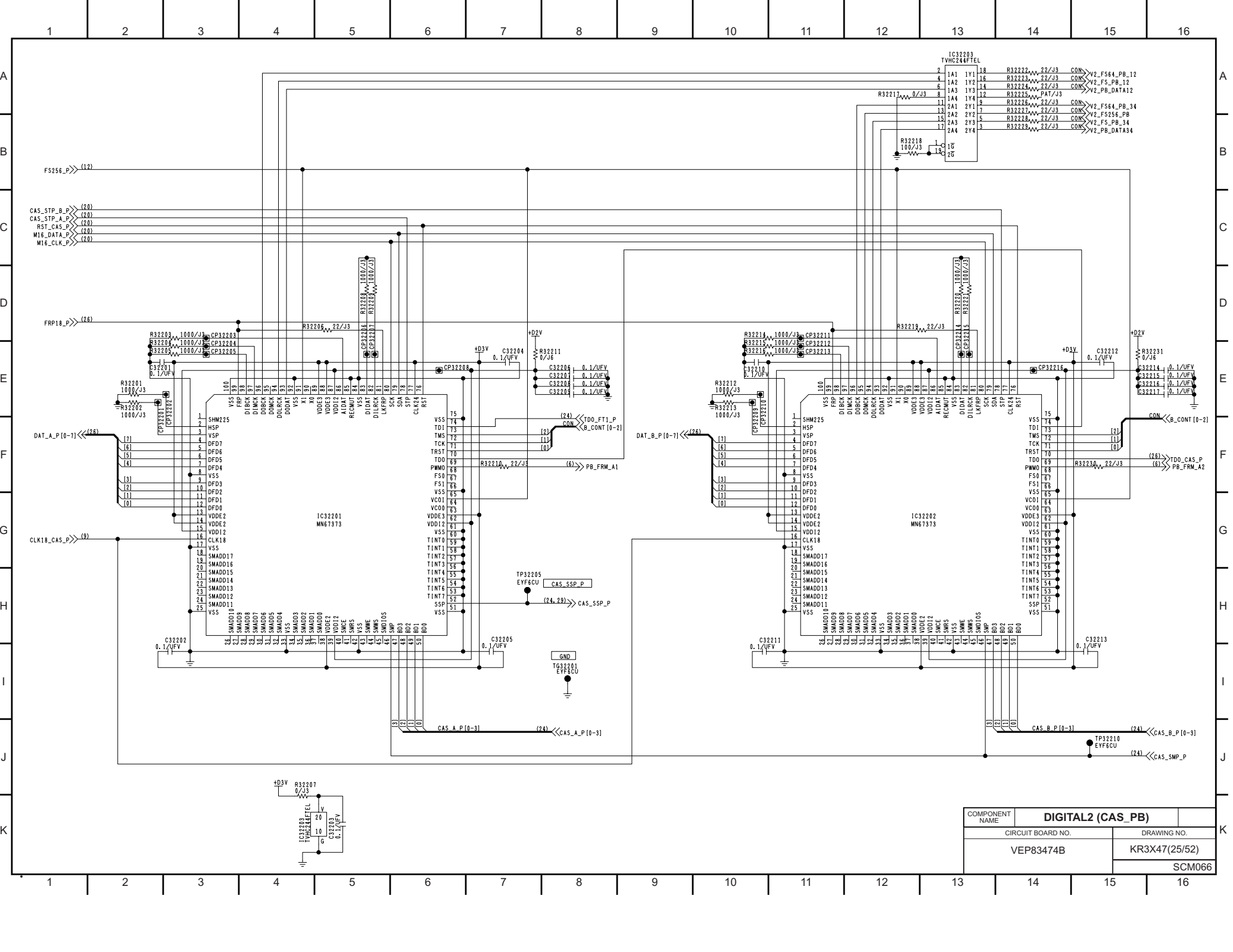






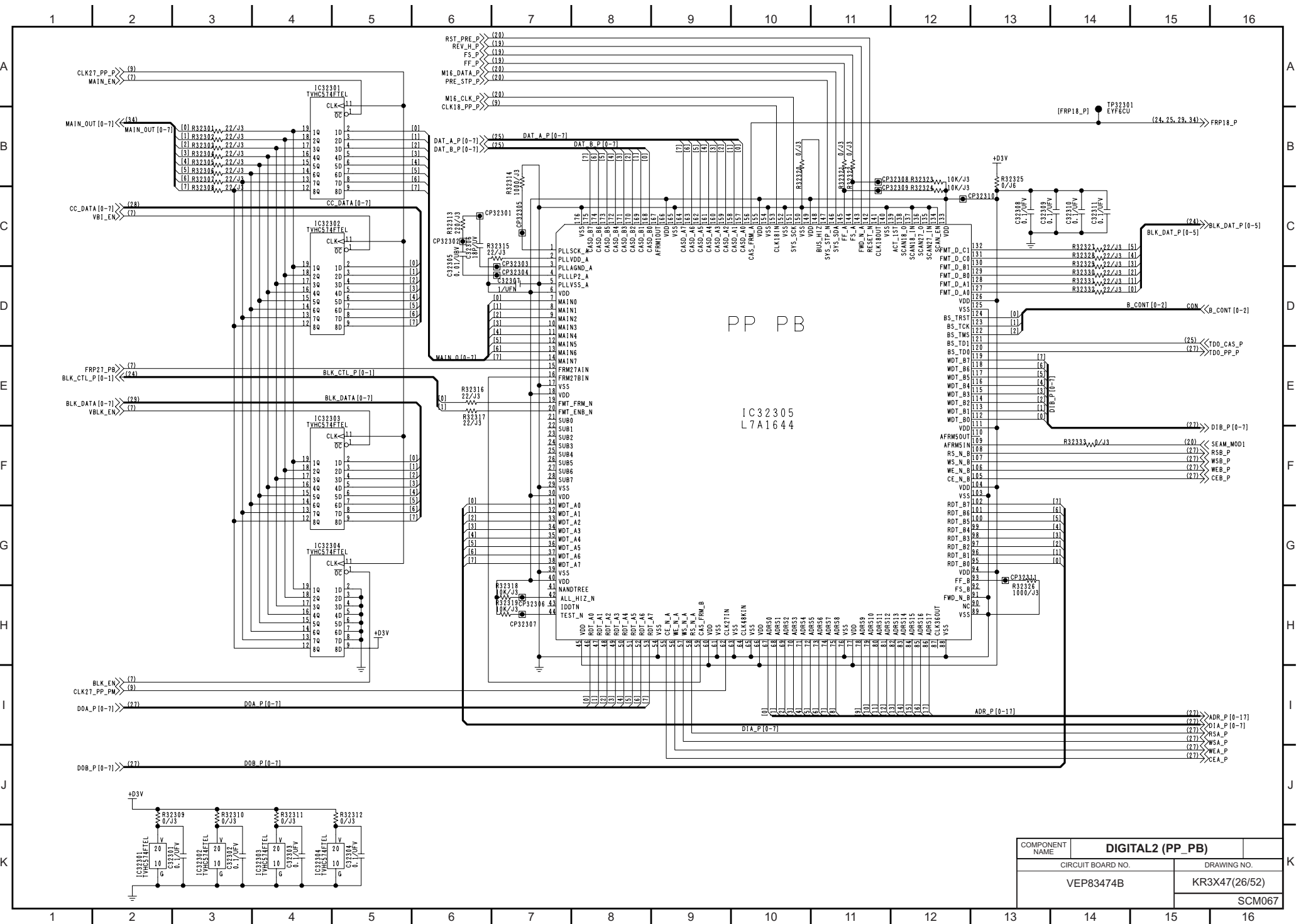
COMPONENT NAME		DIGITAL2 (FT1_PB)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(24/52)	
		SCM065	





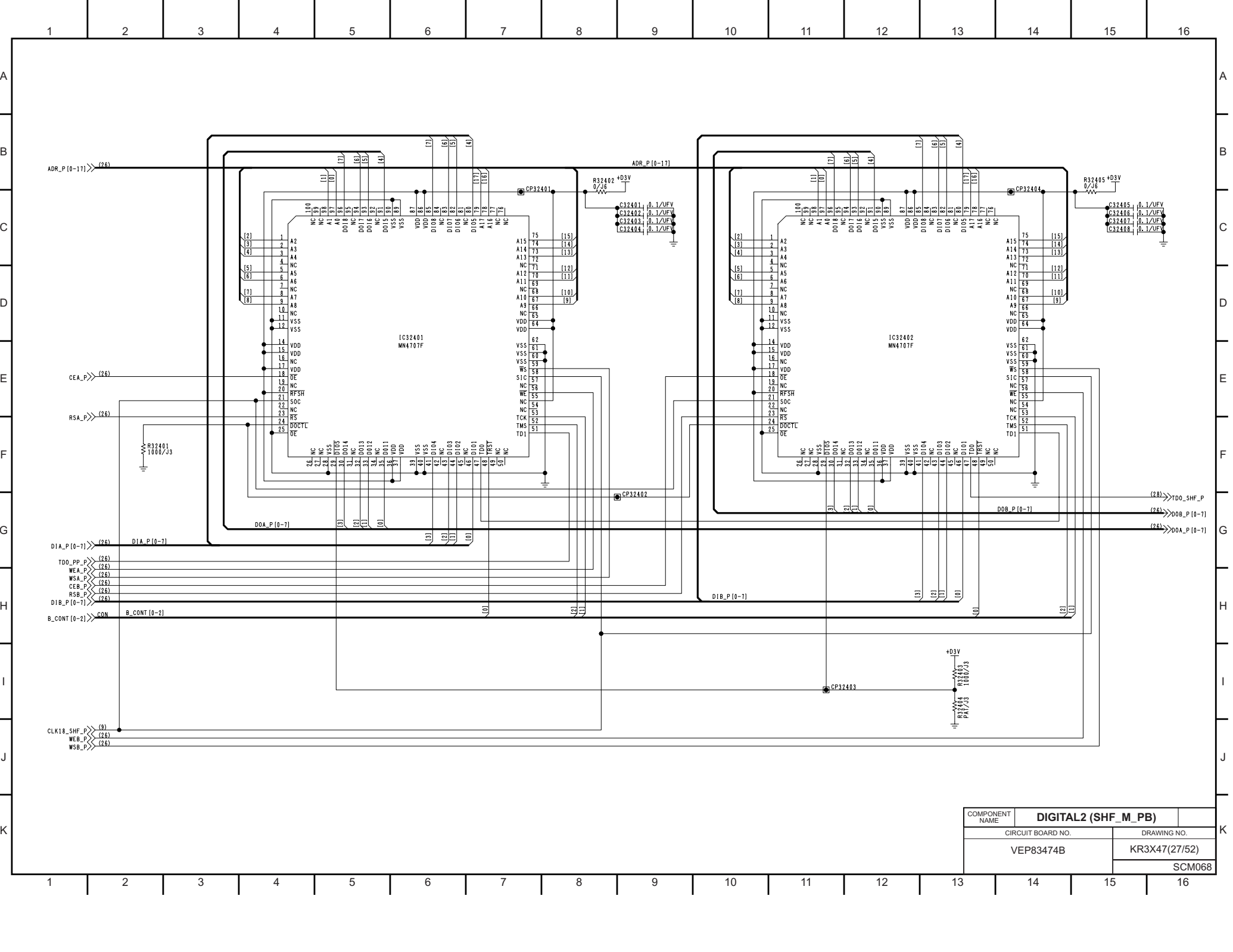
COMPONENT NAME		DIGITAL2 (CAS_PB)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(25/52)	
		SCM066	





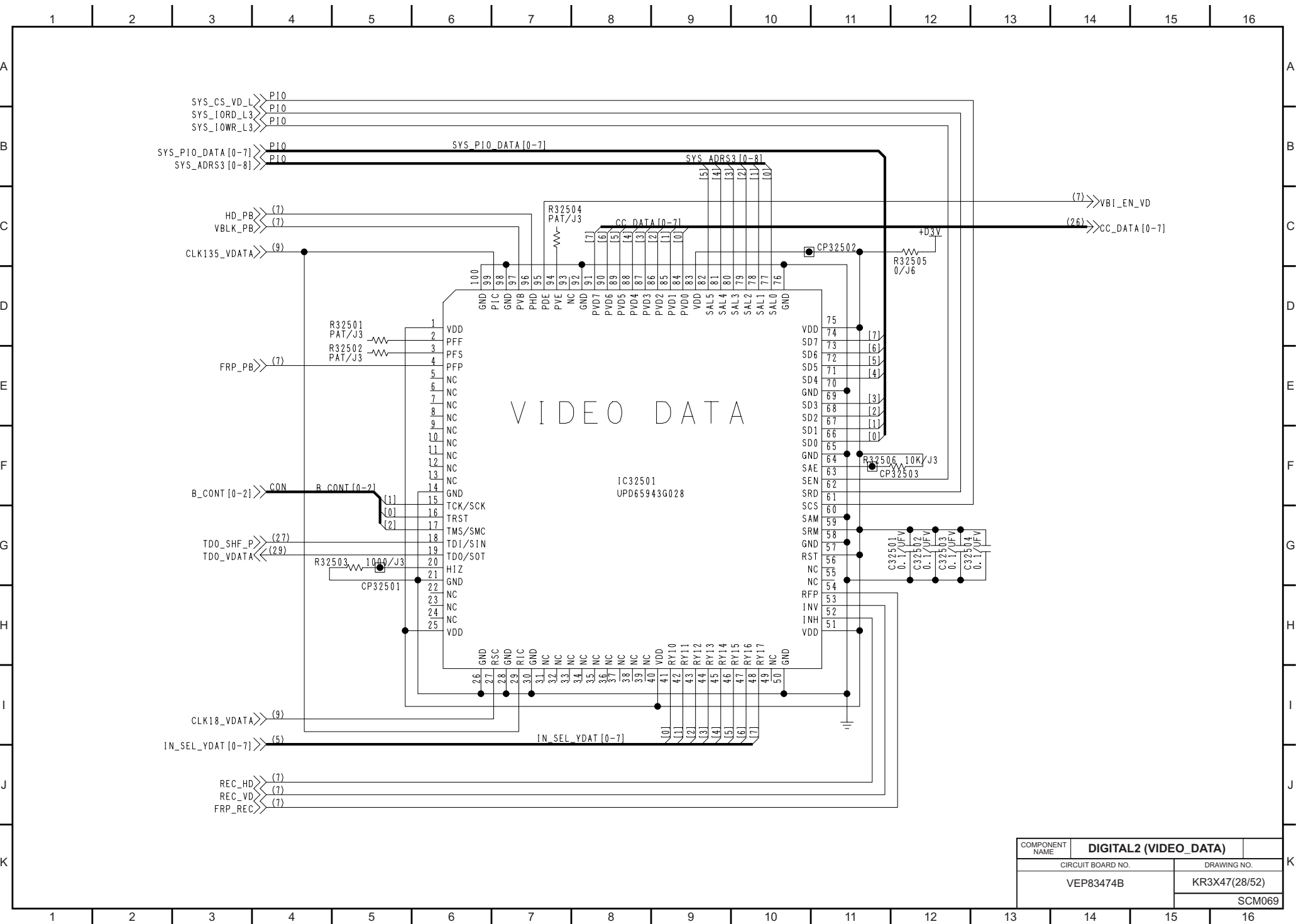
COMPONENT NAME		DIGITAL2 (PP_PB)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(26/52)	
		SCM067	





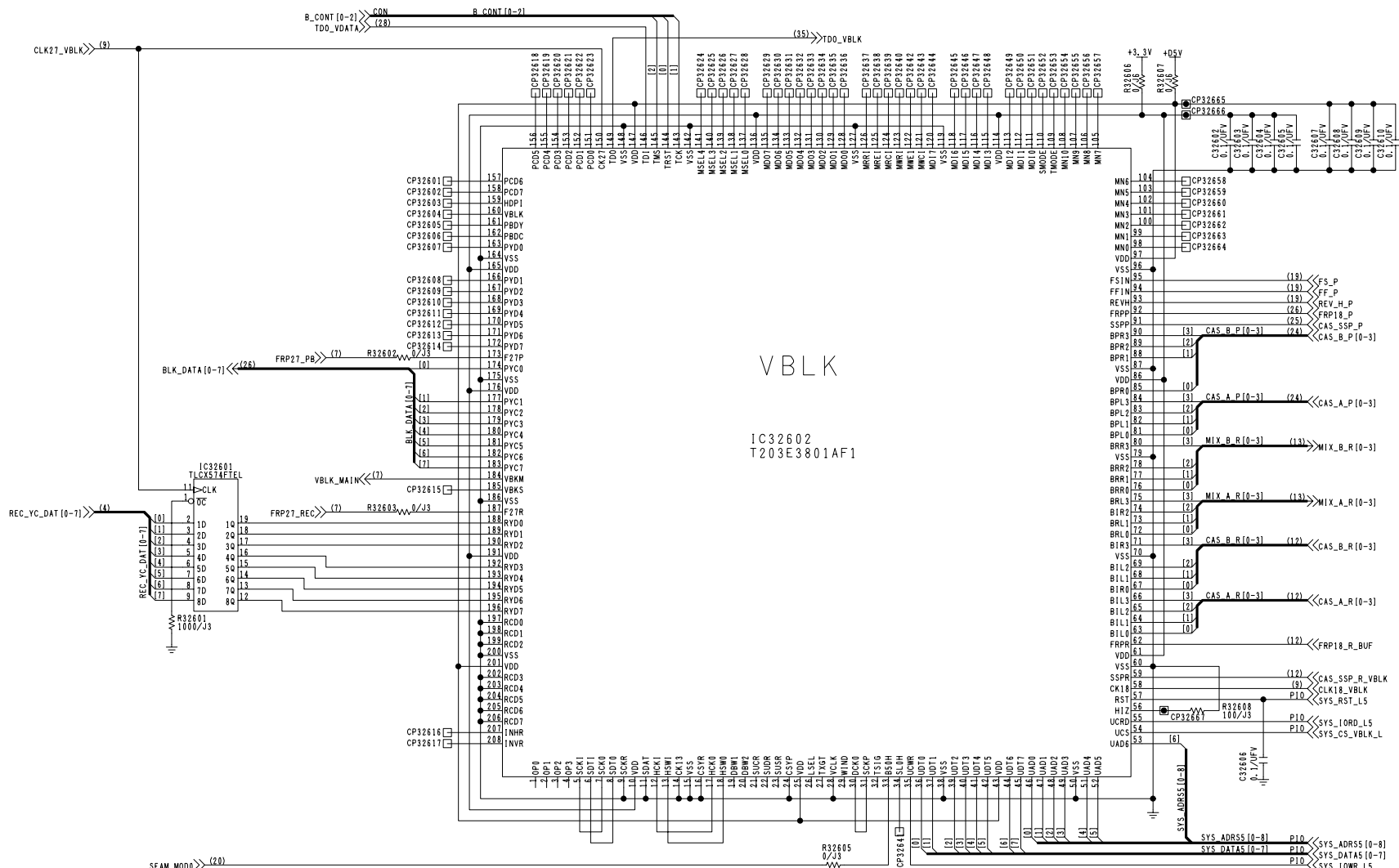
COMPONENT NAME	DIGITAL2 (SHF_M_PB)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(27/52)
		SCM068





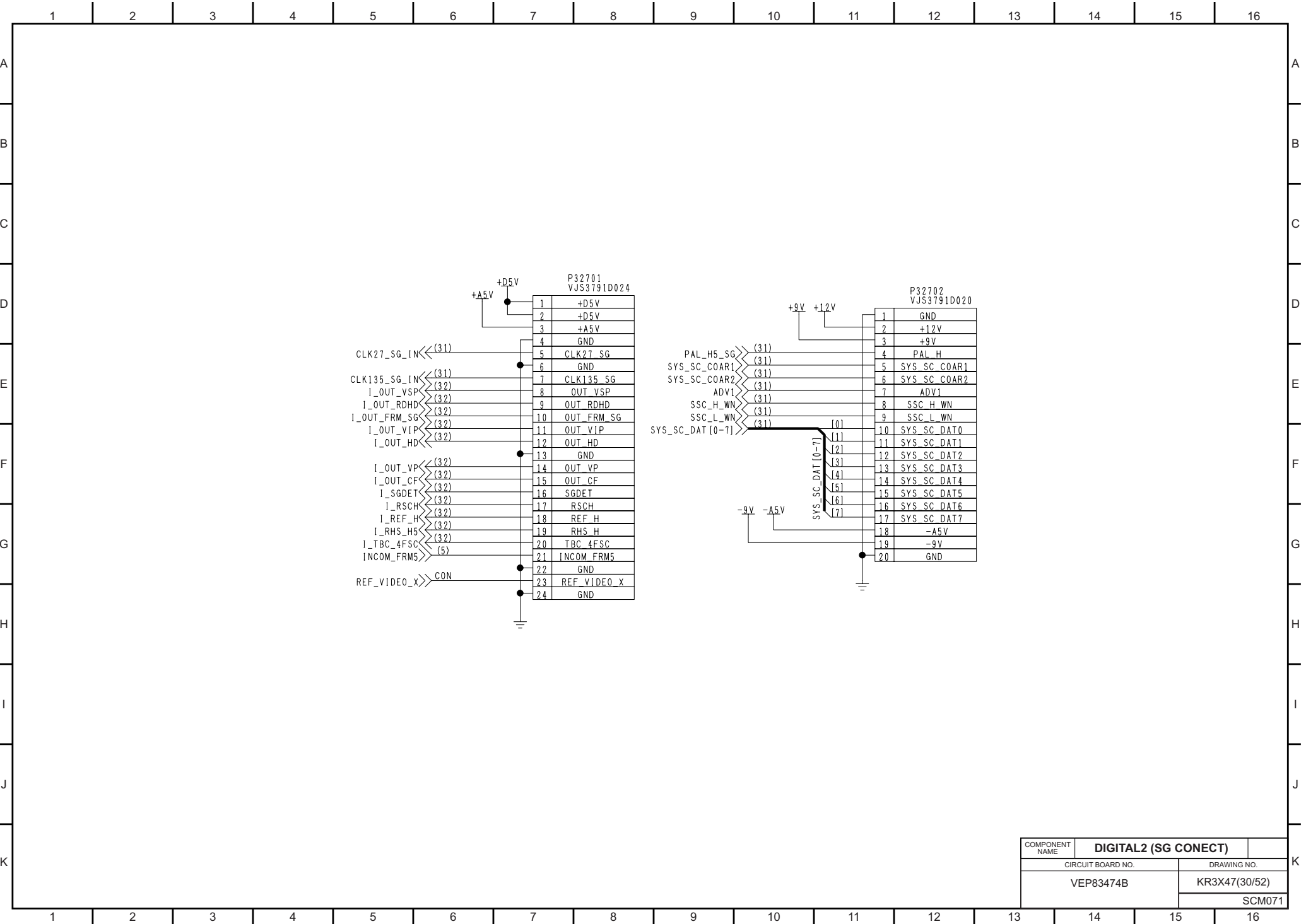
COMPONENT NAME	DIGITAL2 (VIDEO_DATA)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(28/52)
		SCM069





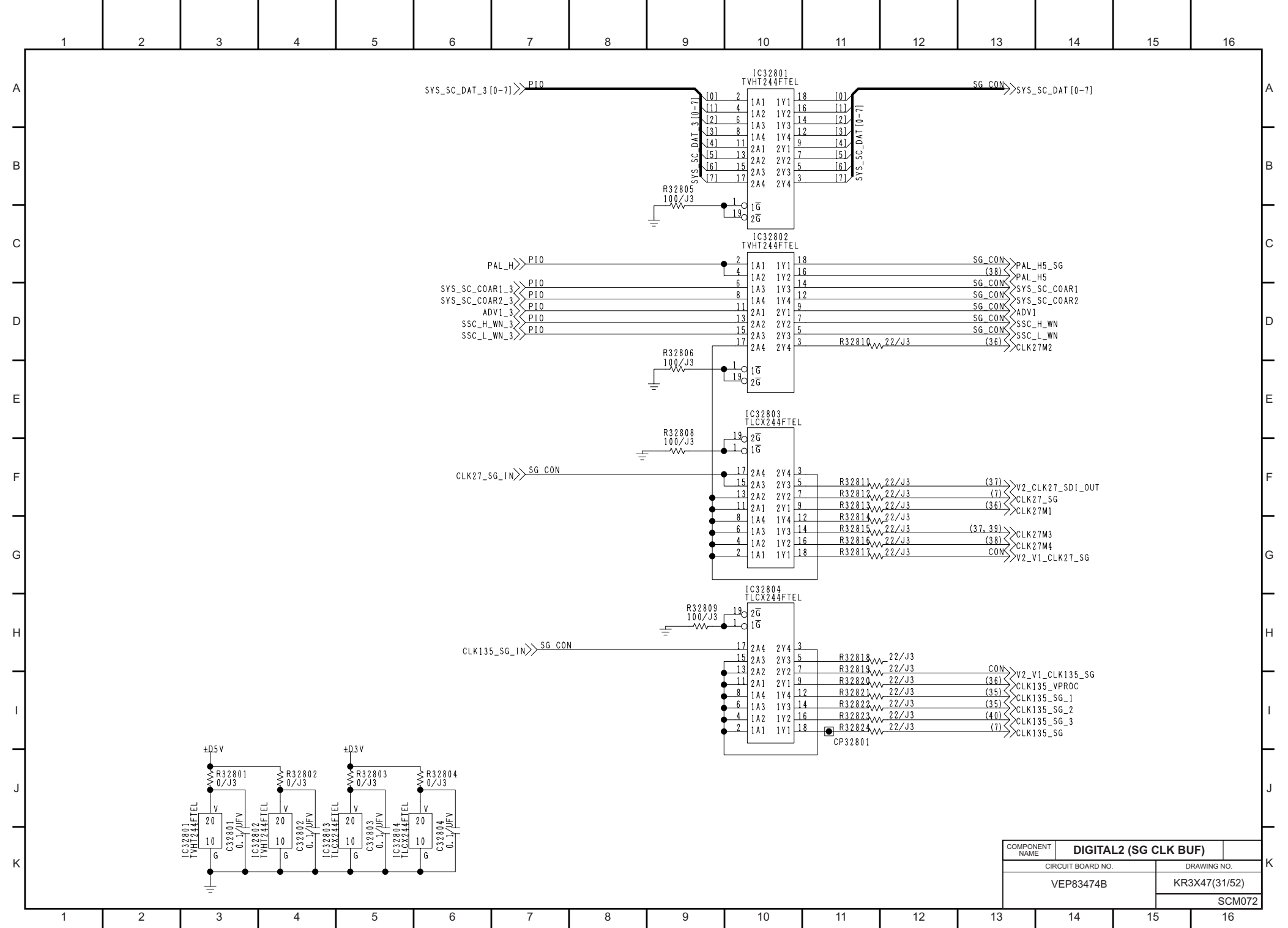
COMPONENT NAME		DIGITAL2 (VBLK_DATA)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(29/52)	
		SCM070	



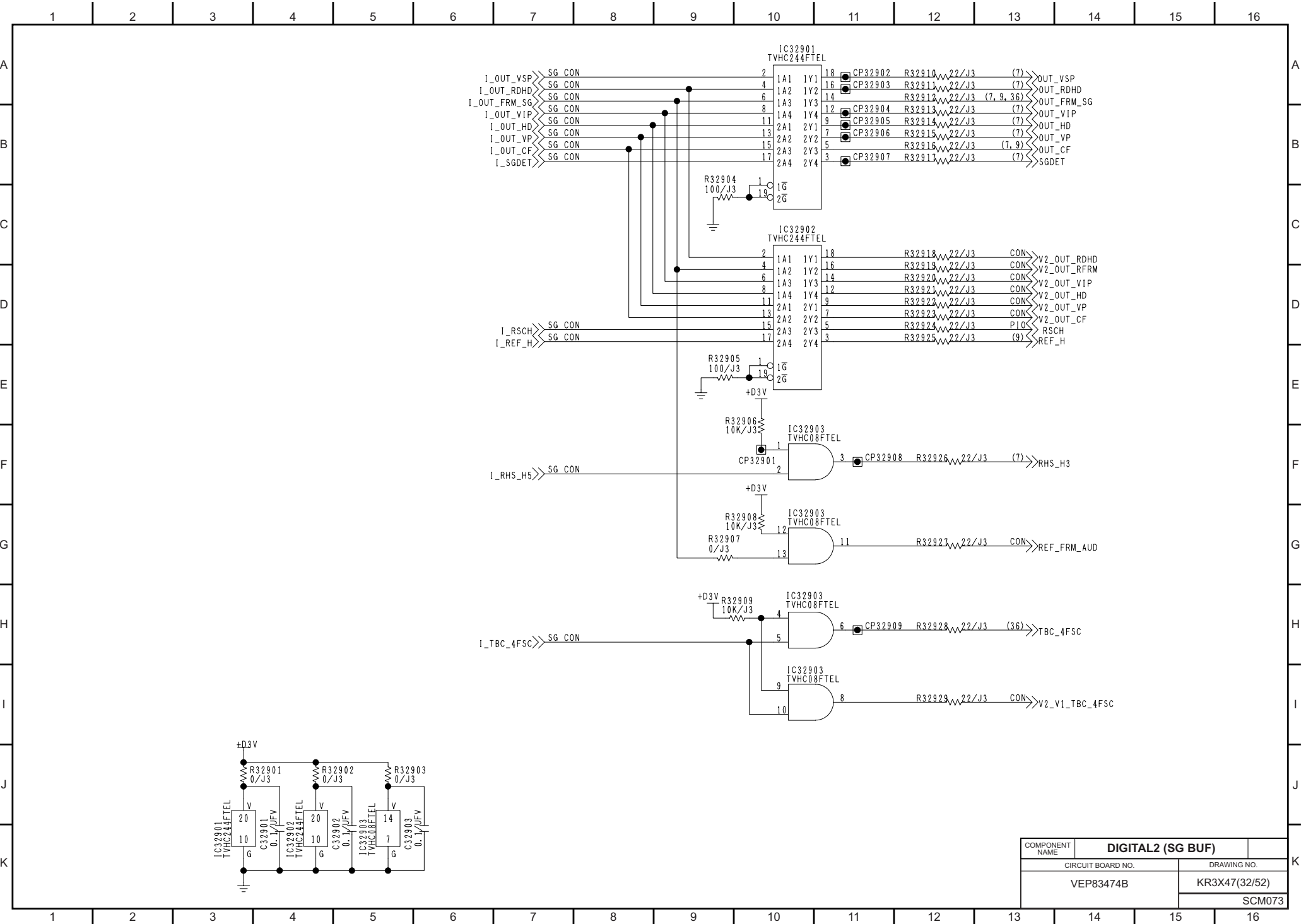


COMPONENT NAME	DIGITAL2 (SG CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(30/52)
SCM071		



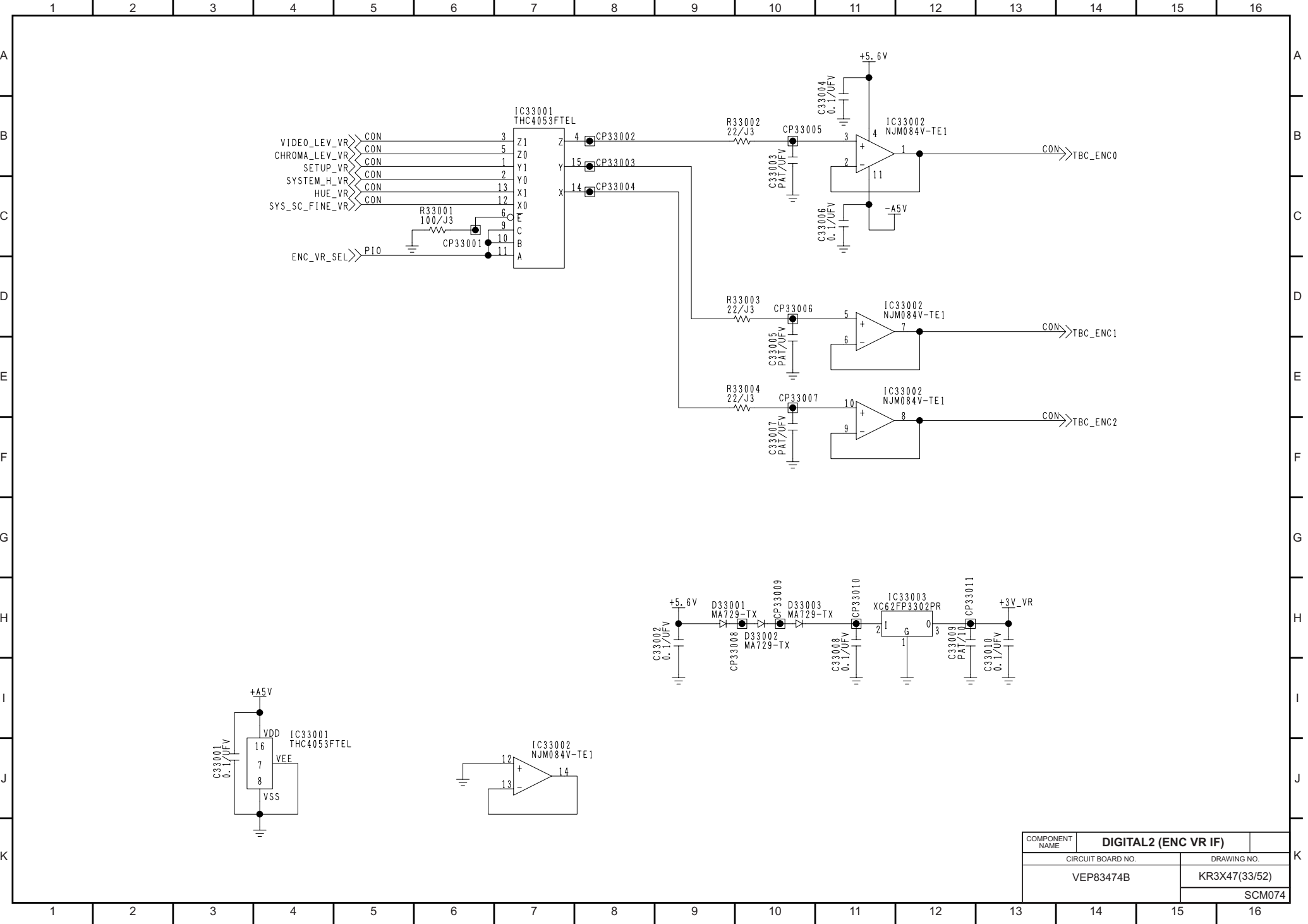






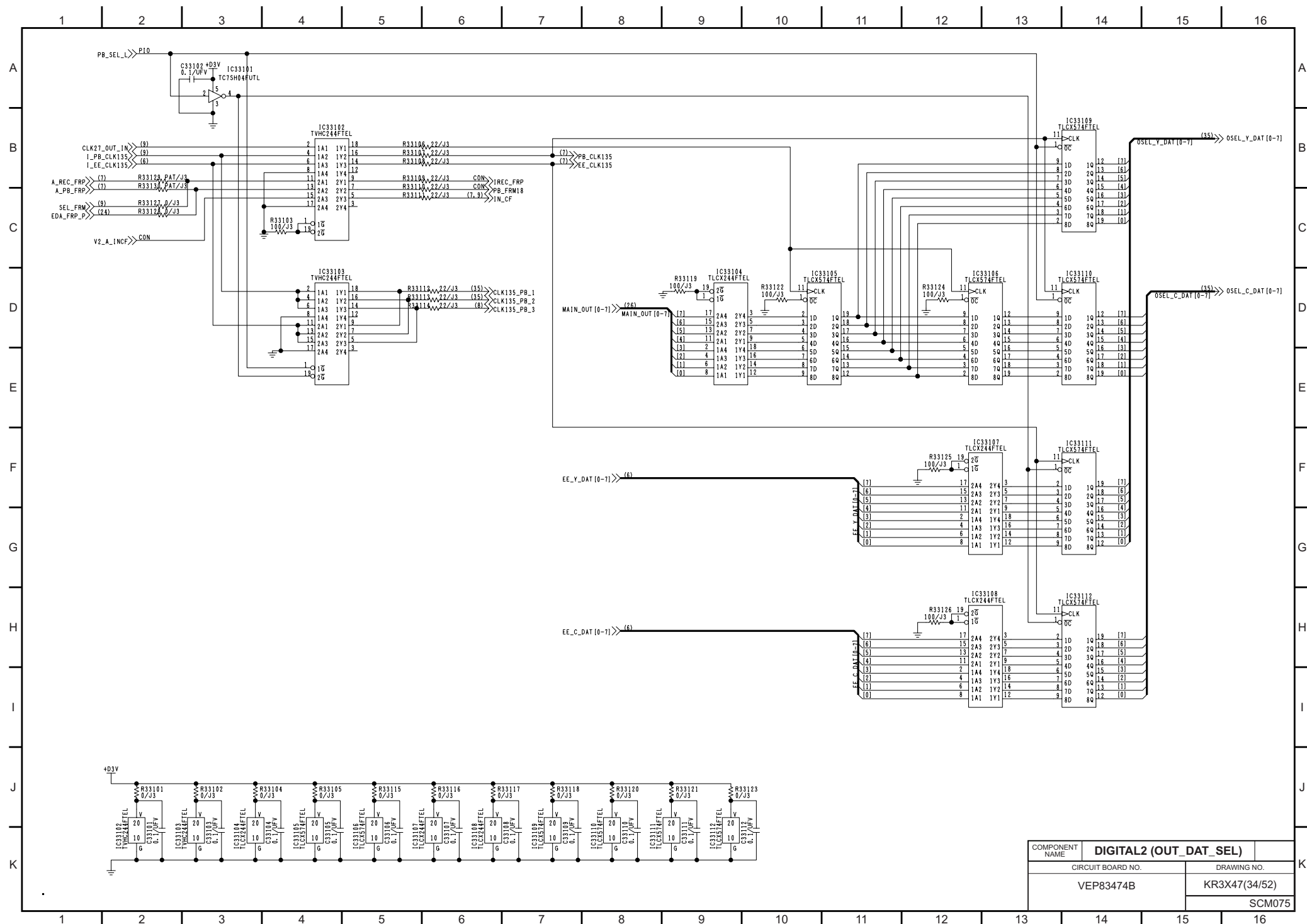
COMPONENT NAME		DIGITAL2 (SG BUF)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP3474B		KR3X47(32/52)	
		SCM073	



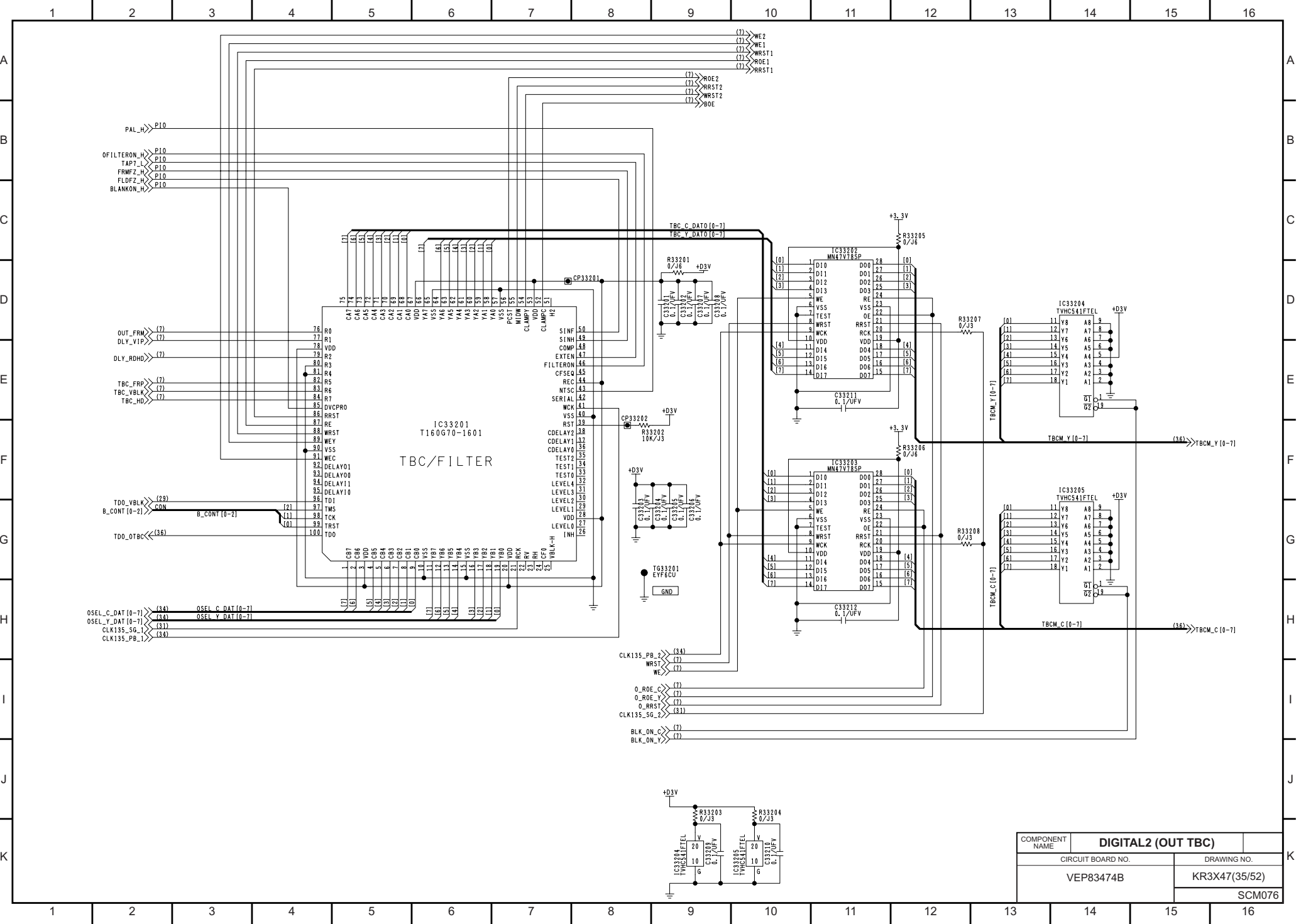


COMPONENT NAME	DIGITAL2 (ENC VR IF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(33/52)
SCM074		



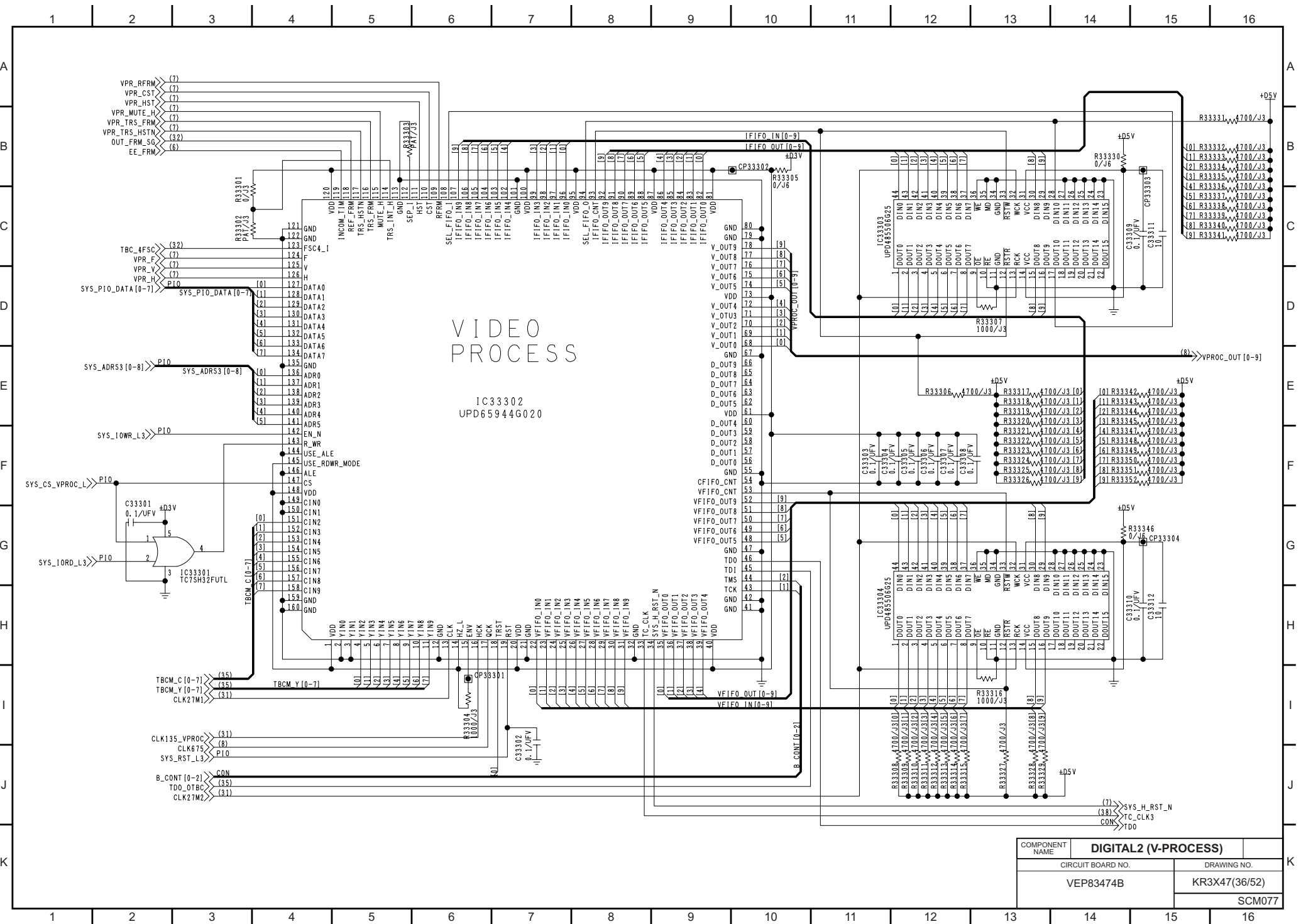




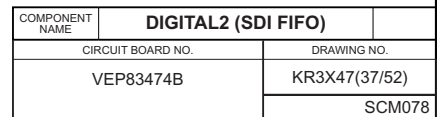


COMPONENT NAME		DIGITAL2 (OUT TBC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(35/52)	
		SCM076	

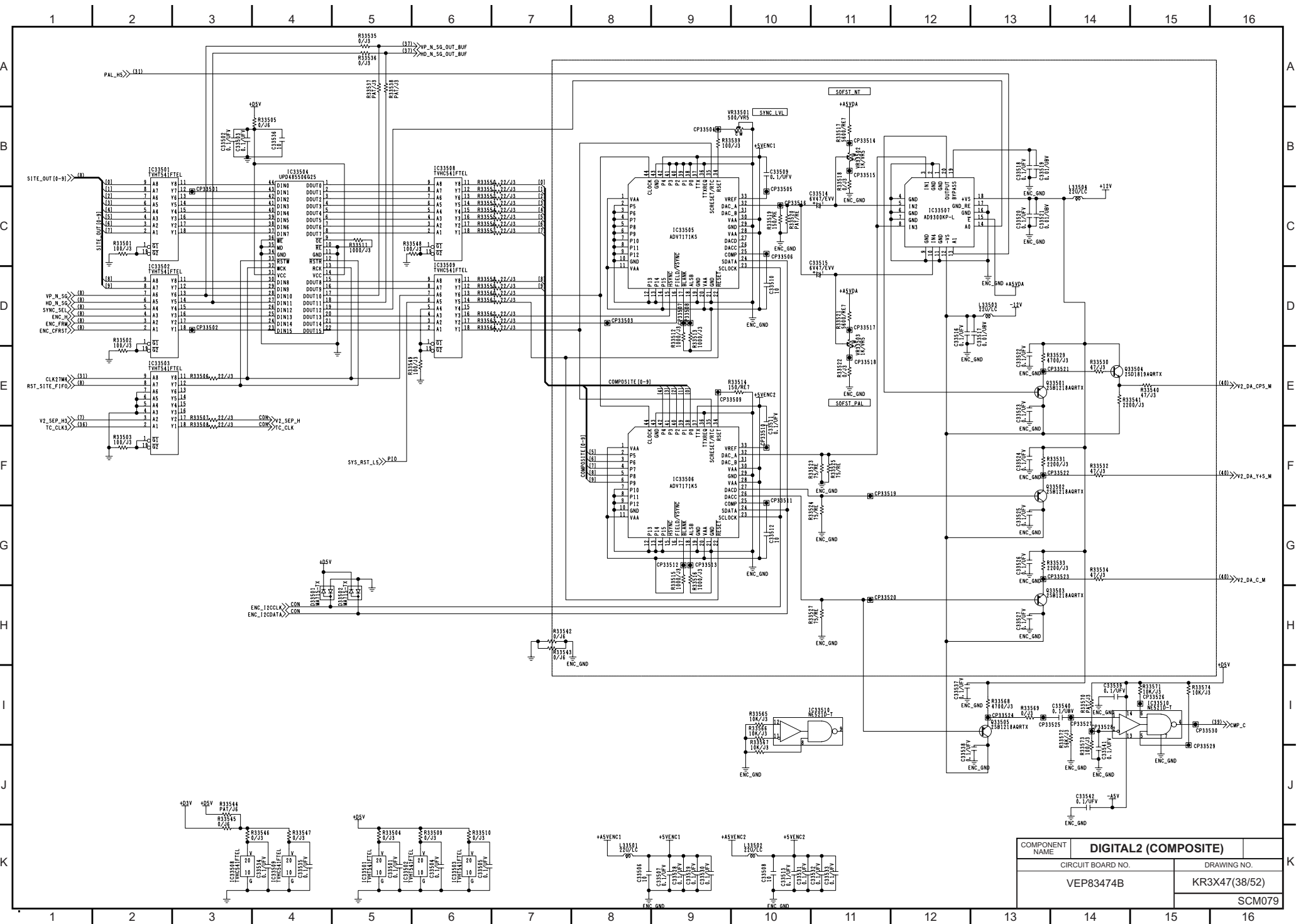






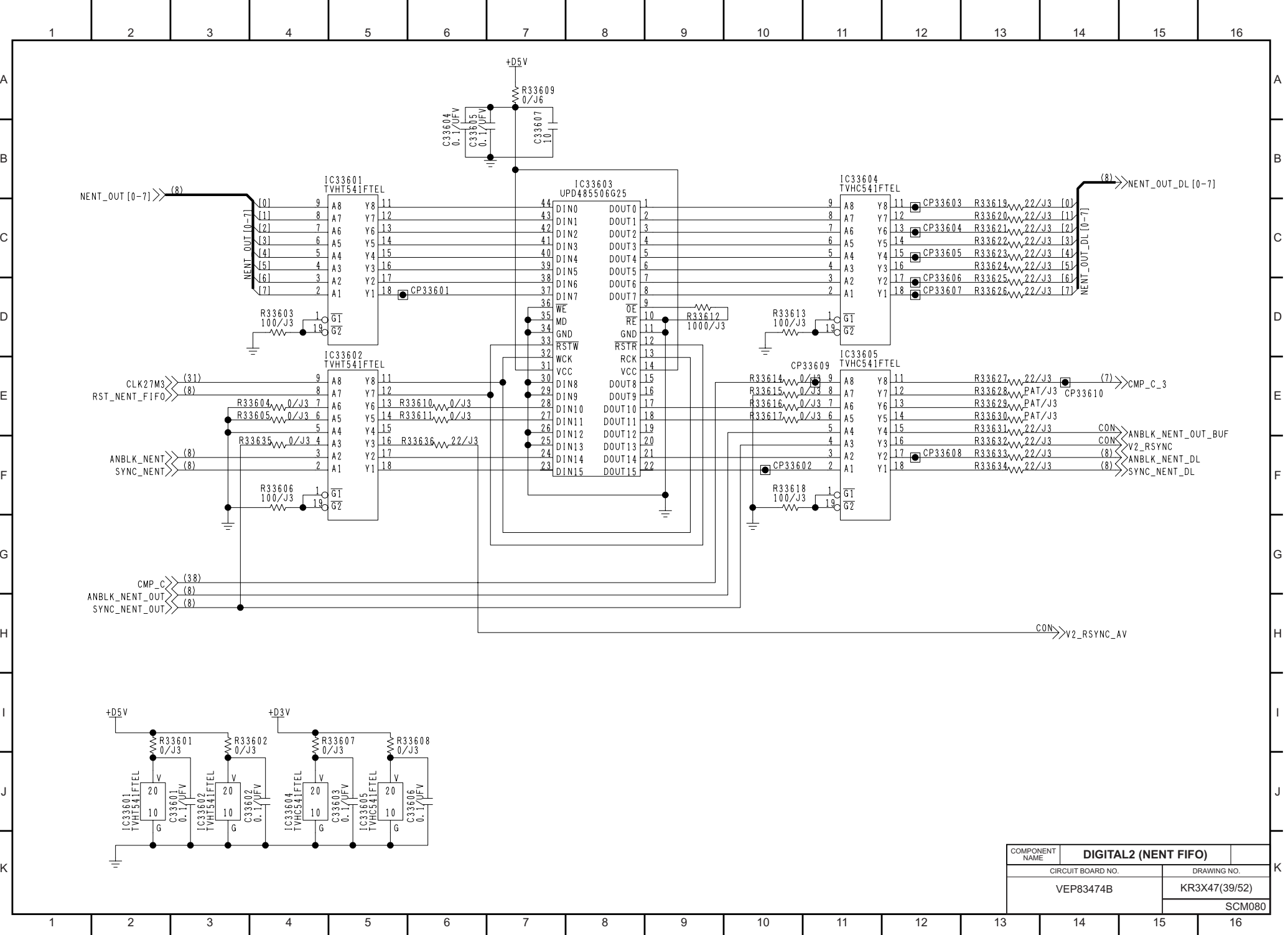






COMPONENT NAME		DIGITAL2 (COMPOSITE)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83747B		KR3X47(38/52)	
		SCM079	



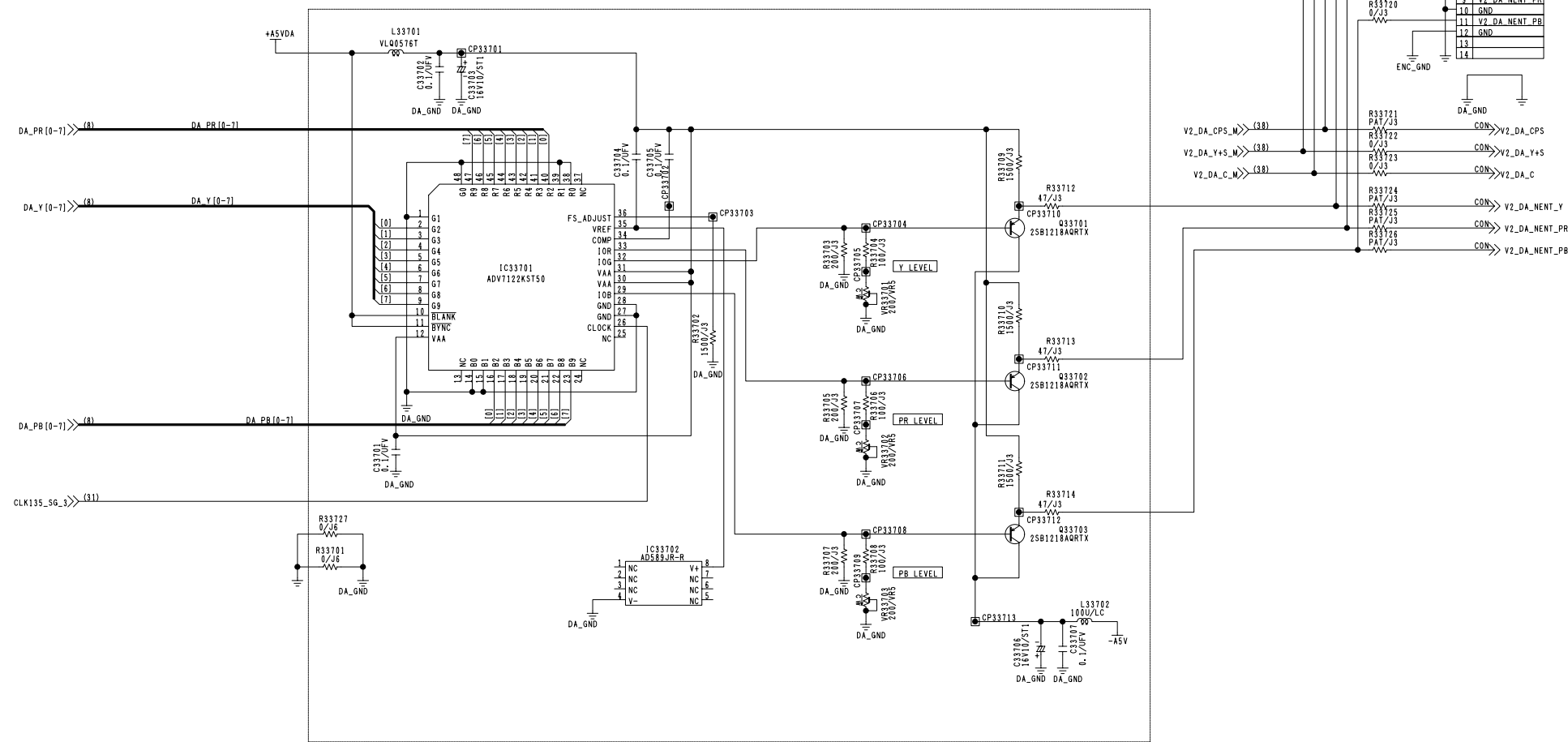


COMPONENT NAME	DIGITAL2 (NENT FIFO)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(39/52)
SCM080		



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K

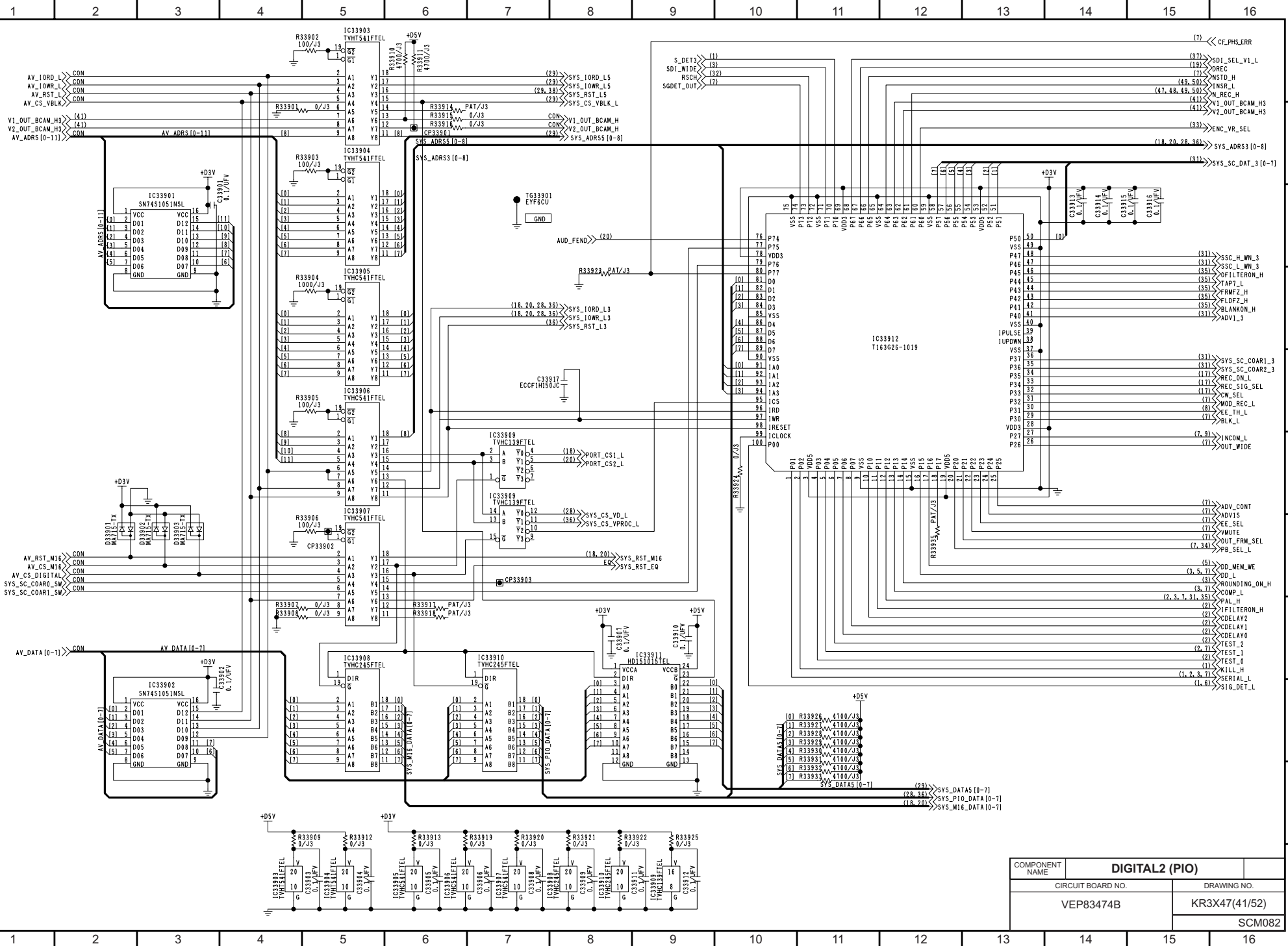
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



COMPONENT NAME		DIGITAL2 (NENT D/A)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(40/52)	
		SCM081	

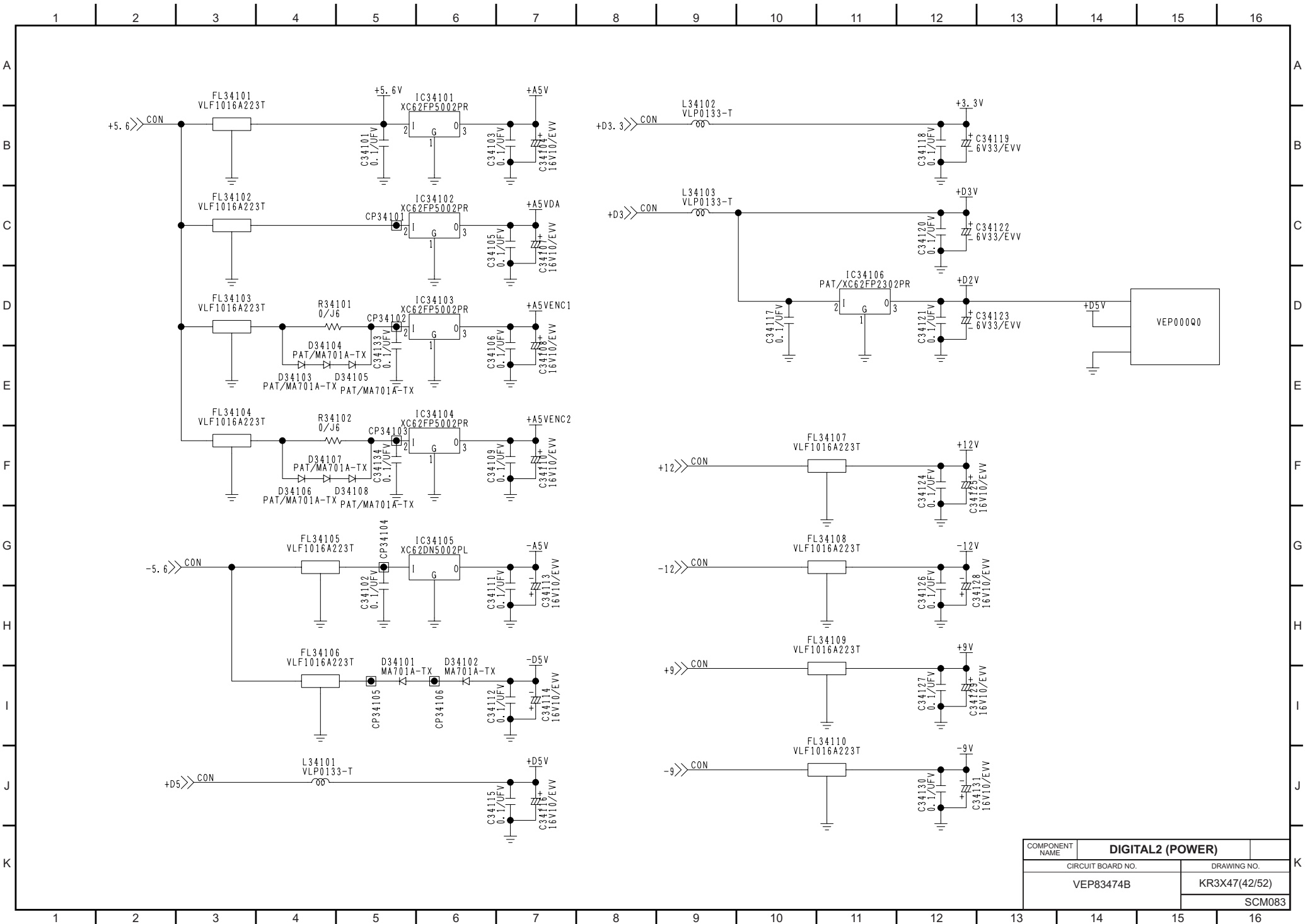
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



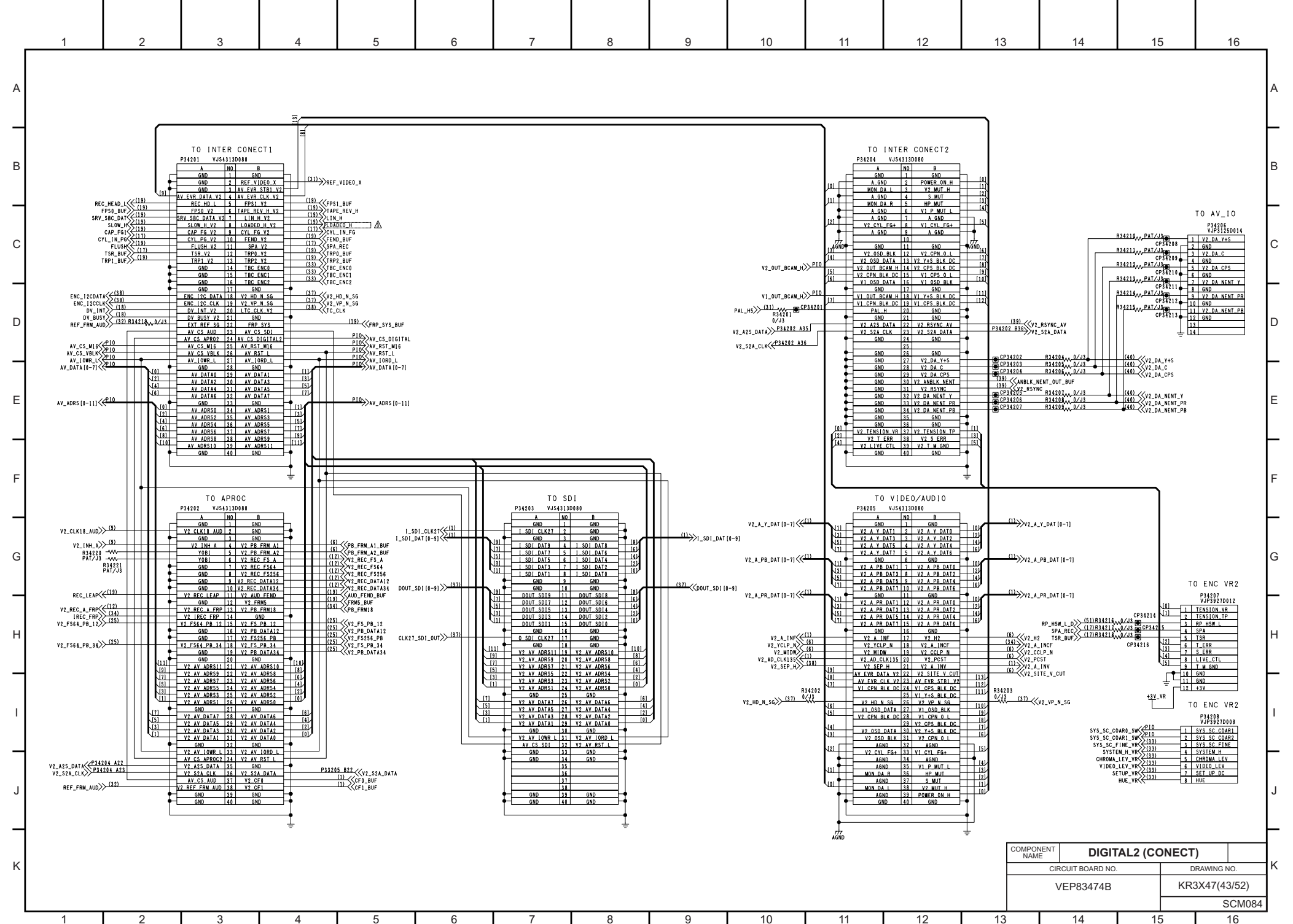


COMPONENT NAME	<b>DIGITAL2 (PIO)</b>		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83474B		KR3X47(41/52)	
		SCM082	



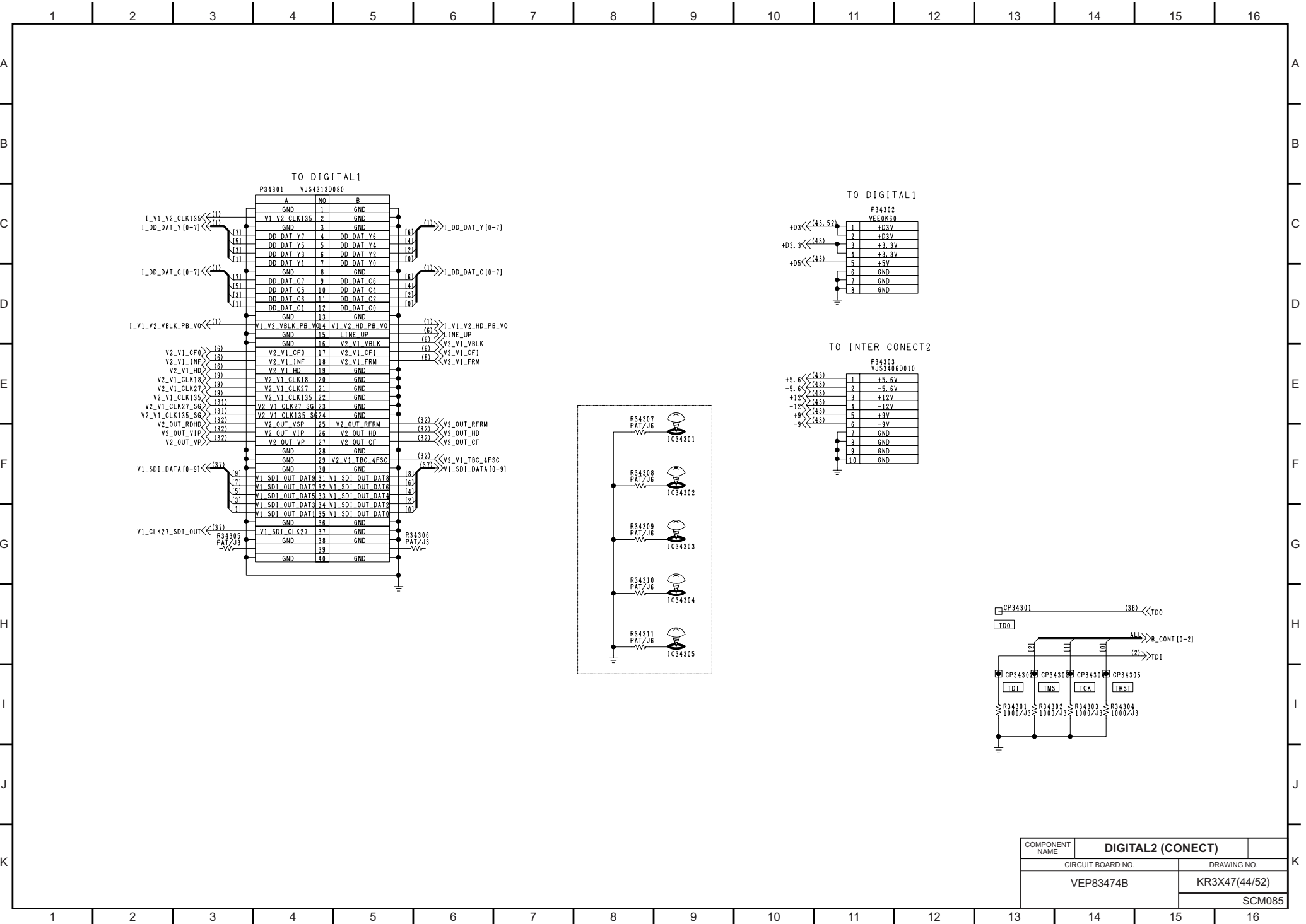






COMPONENT NAME	DIGITAL2 (CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(43/52)
		SCM084

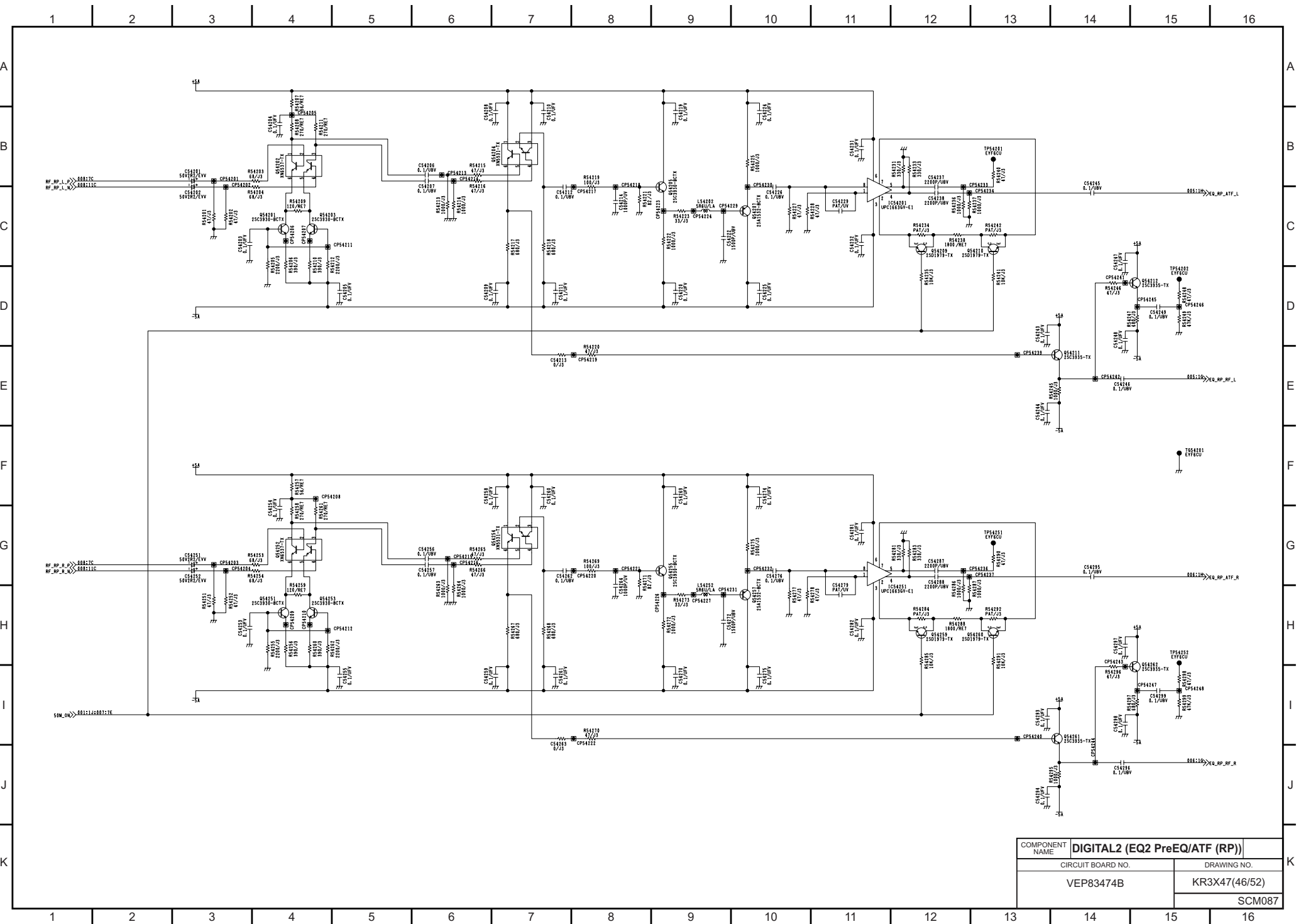




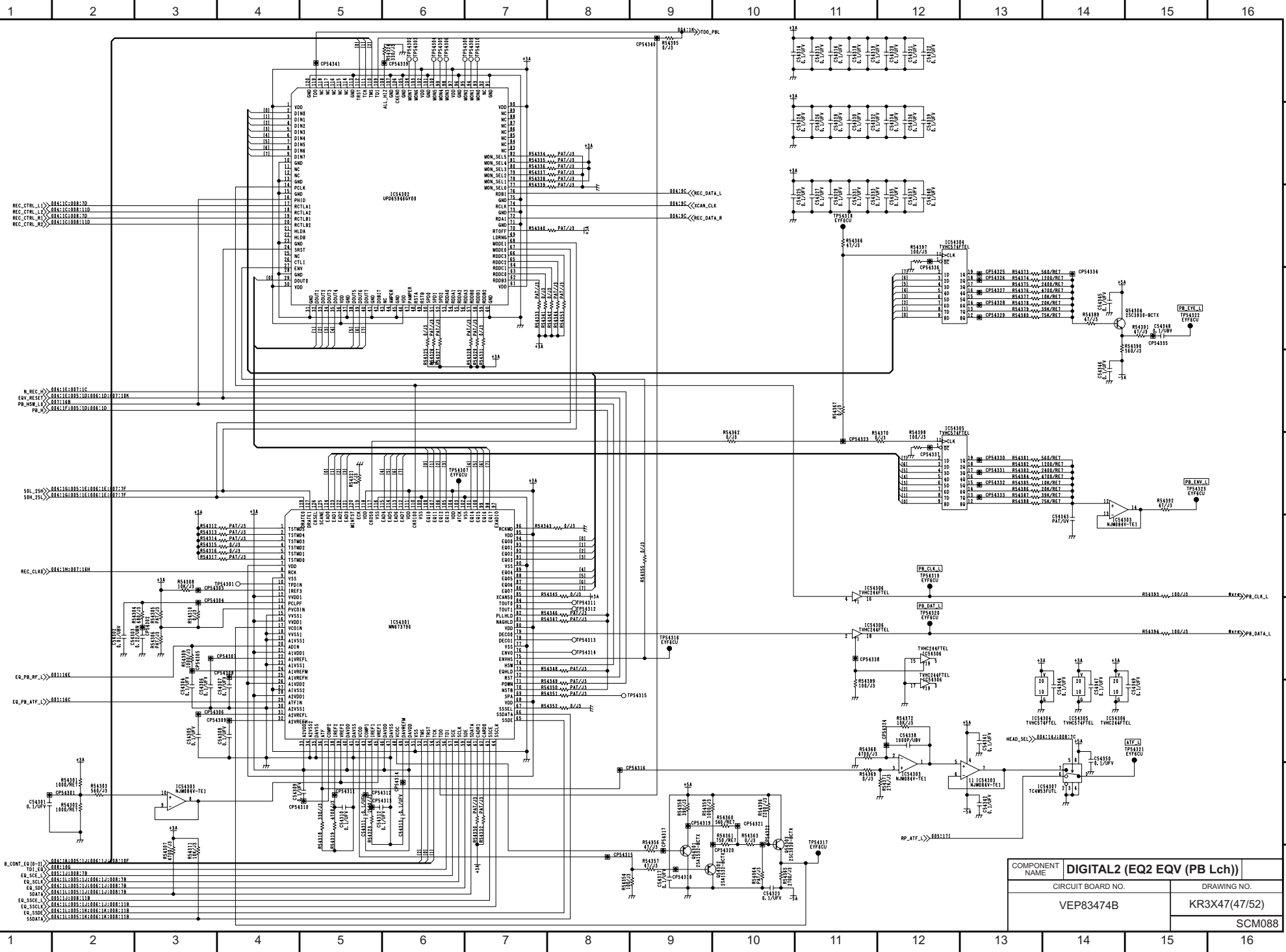




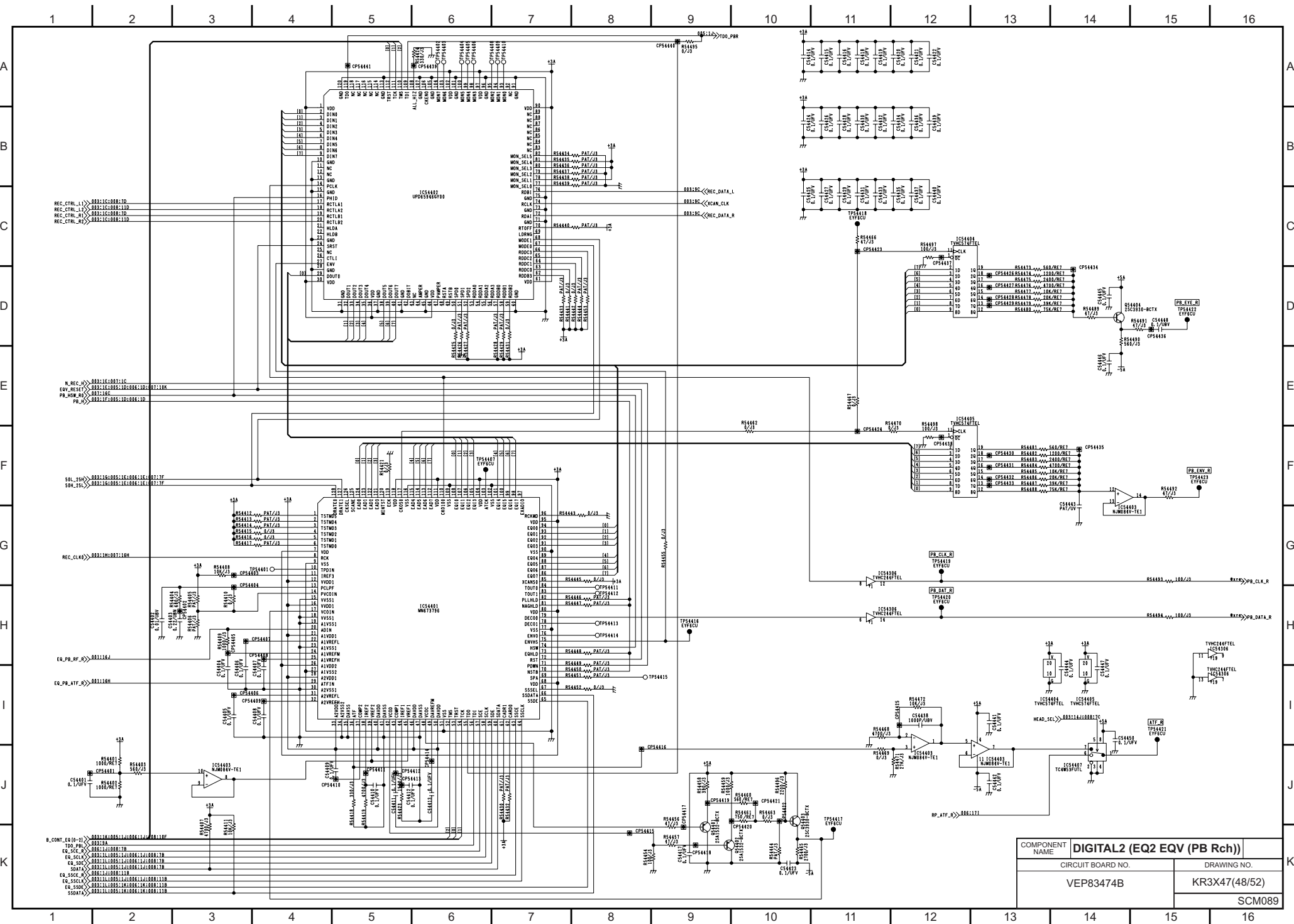






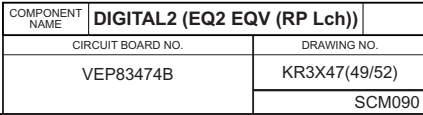






COMPONENT NAME		DIGITAL2 (EQ2 EQV (PB Rch))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83747B		KR3X47(48/52)	
		SCM089	

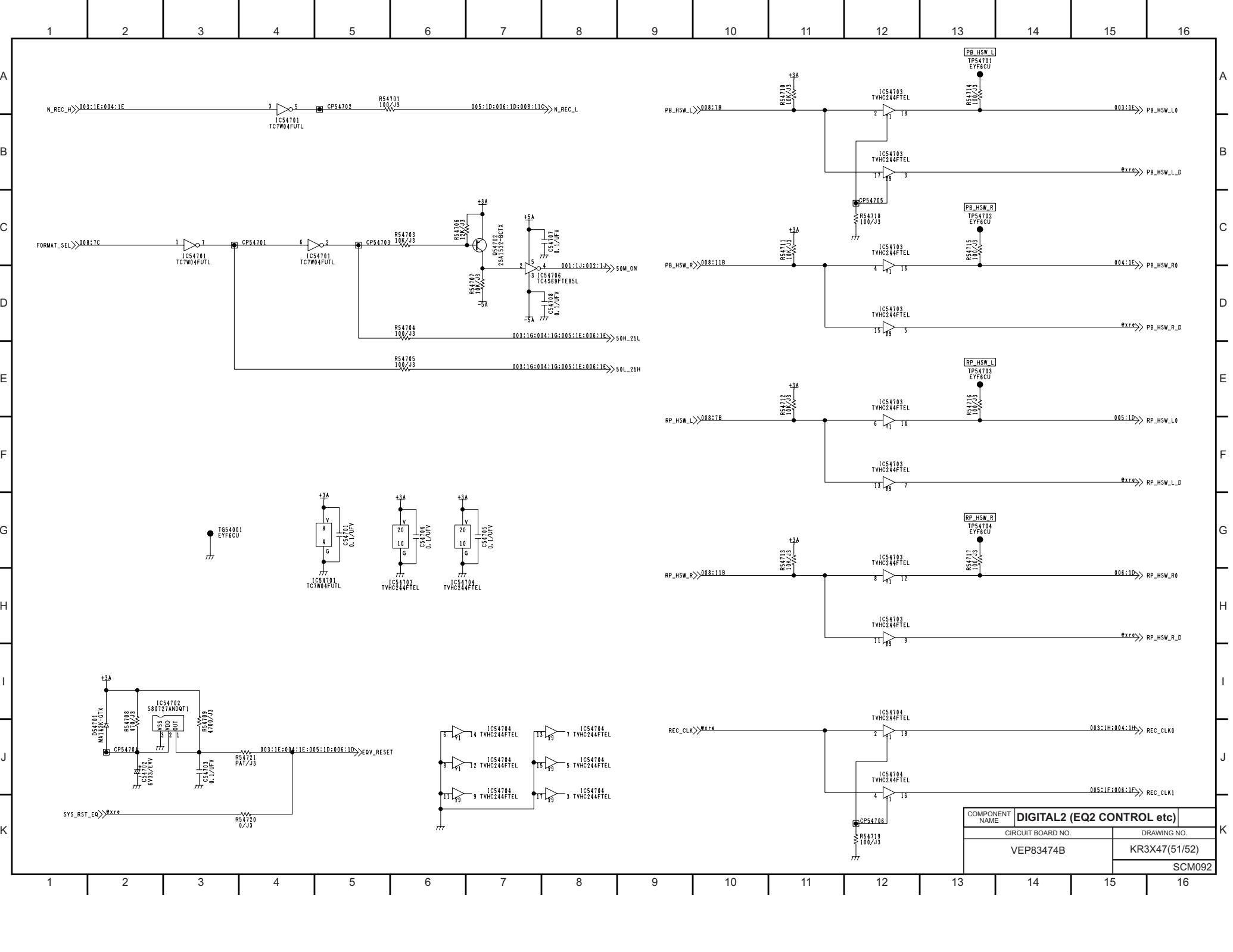










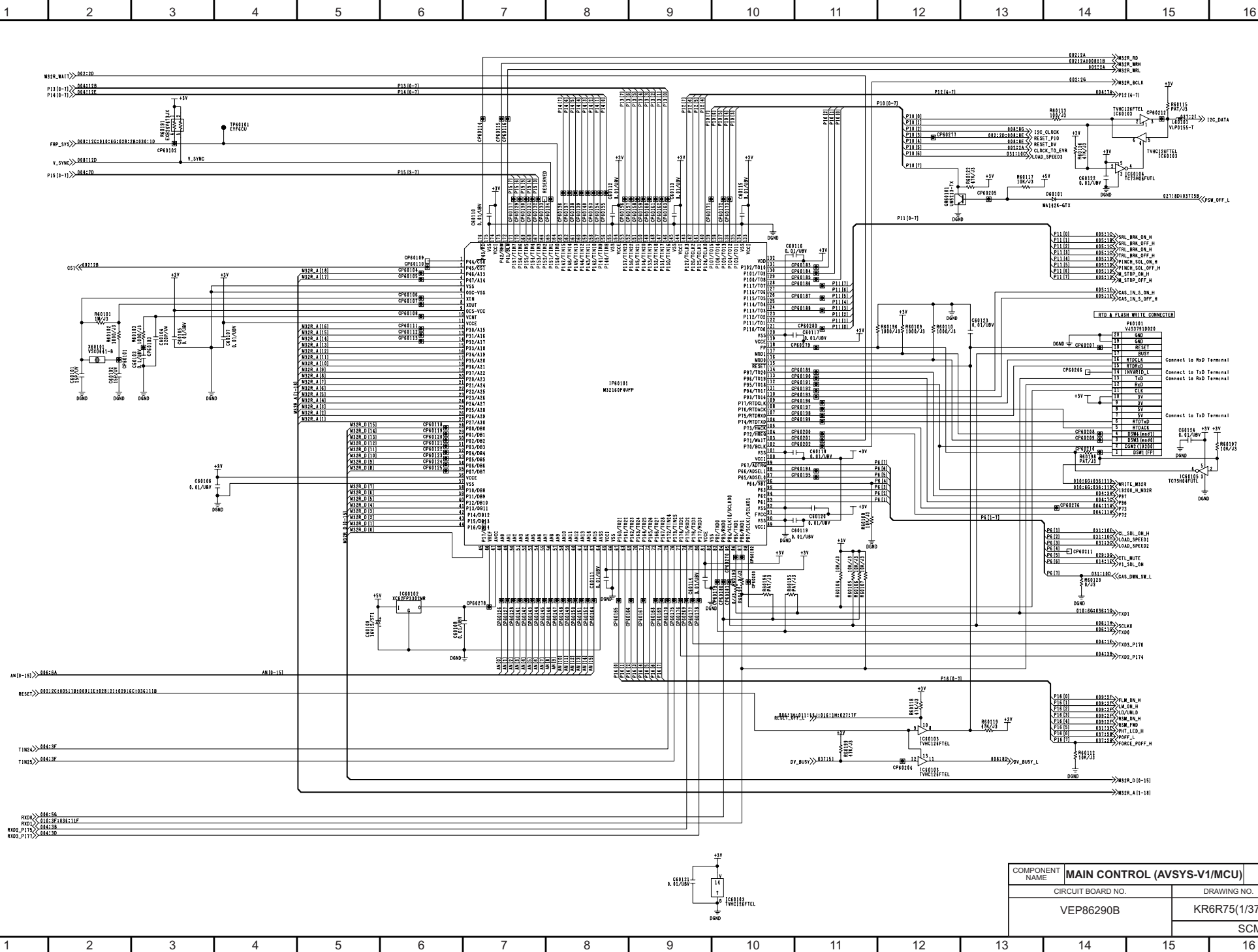


COMPONENT NAME	DIGITAL2 (EQ2 CONTROL etc)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83474B		KR3X47(51/52)
SCM092		

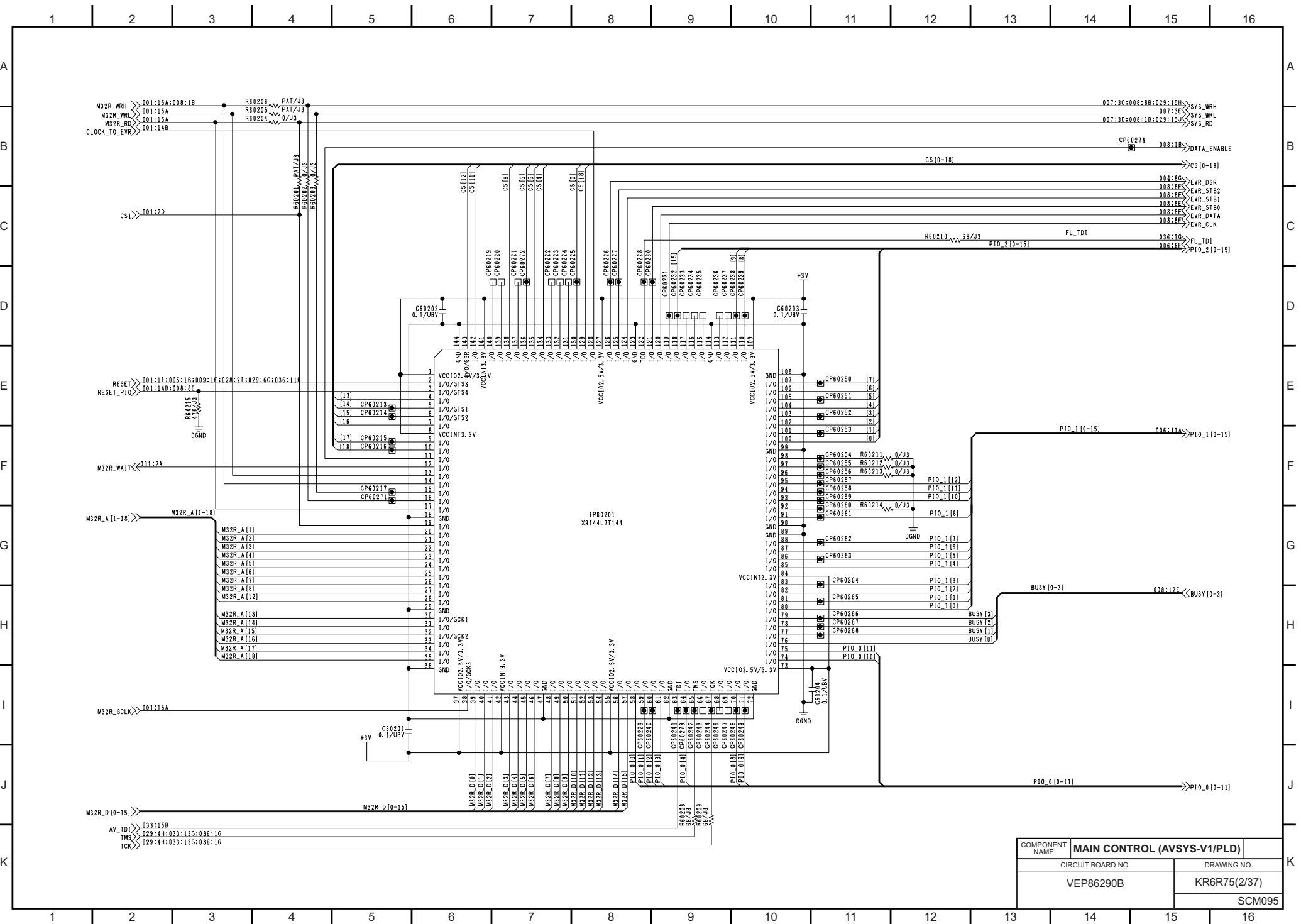






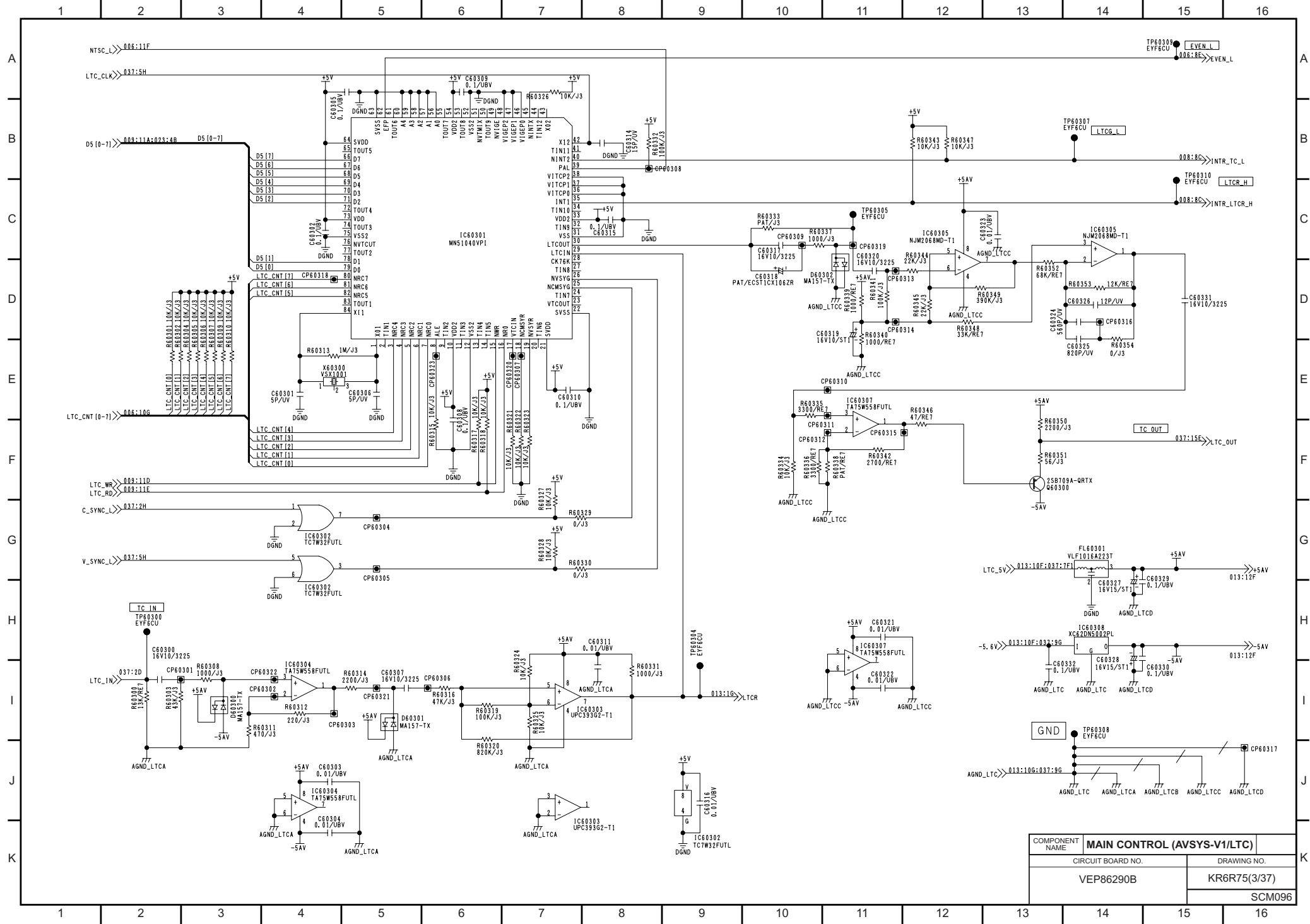




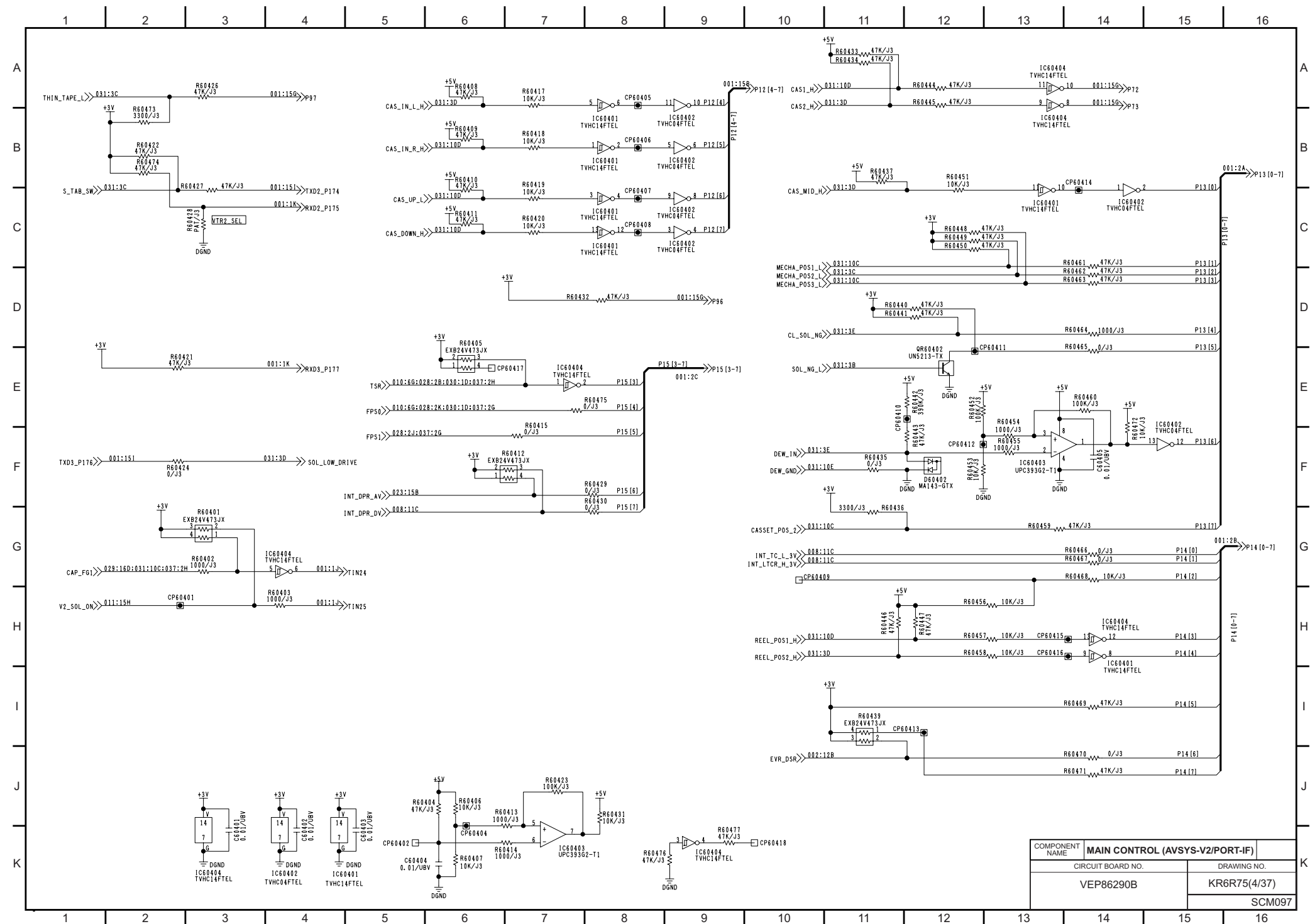


COMPONENT NAME		MAIN CONTROL (AVSYS-V1/PLD)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(2/37)	
		SCM095	

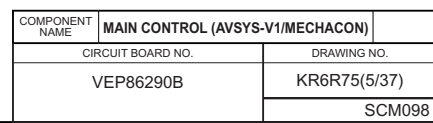






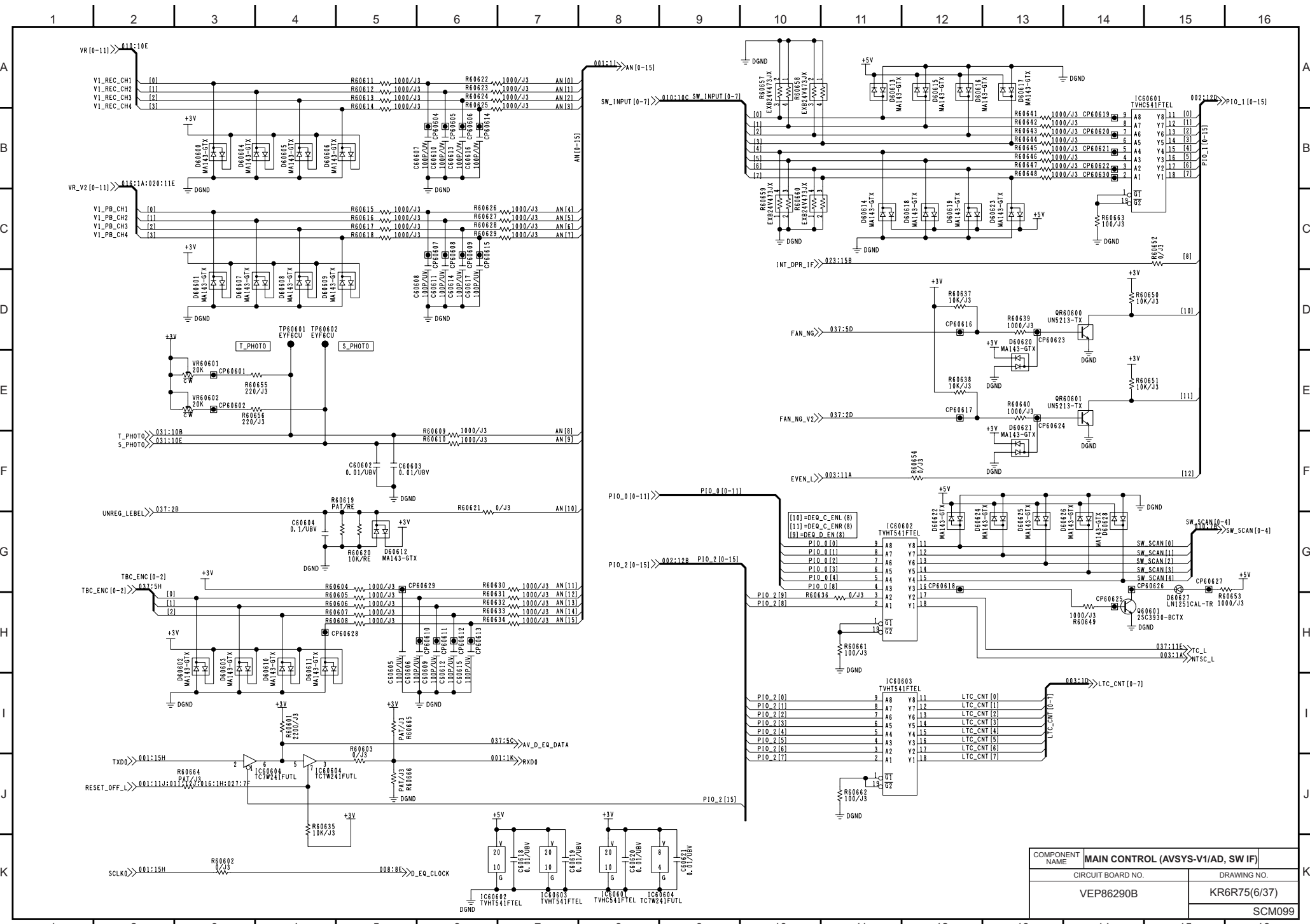






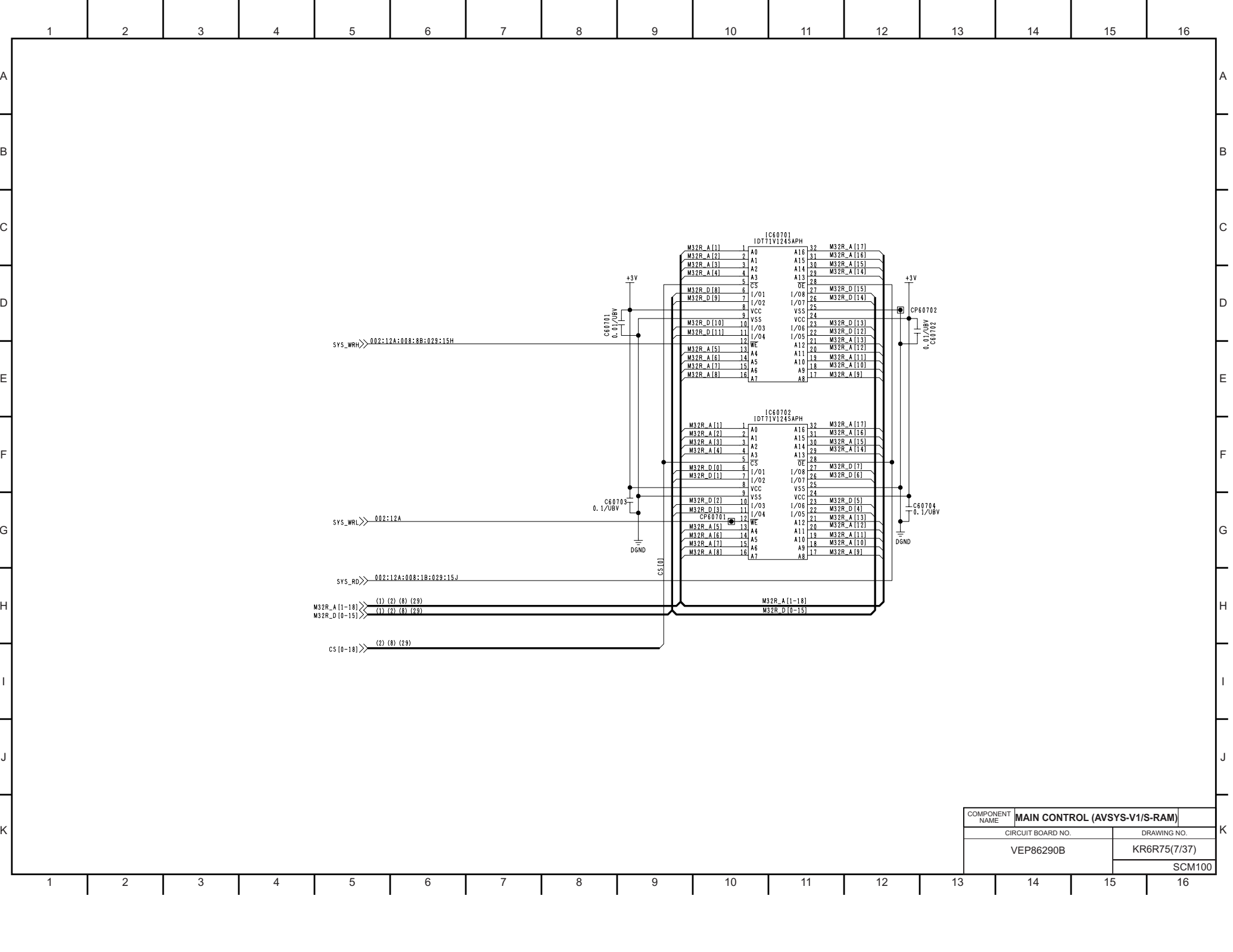
COMPONENT NAME	MAIN CONTROL (AVSYS-V1/MECHACON)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(5/37)	
		SCM098	





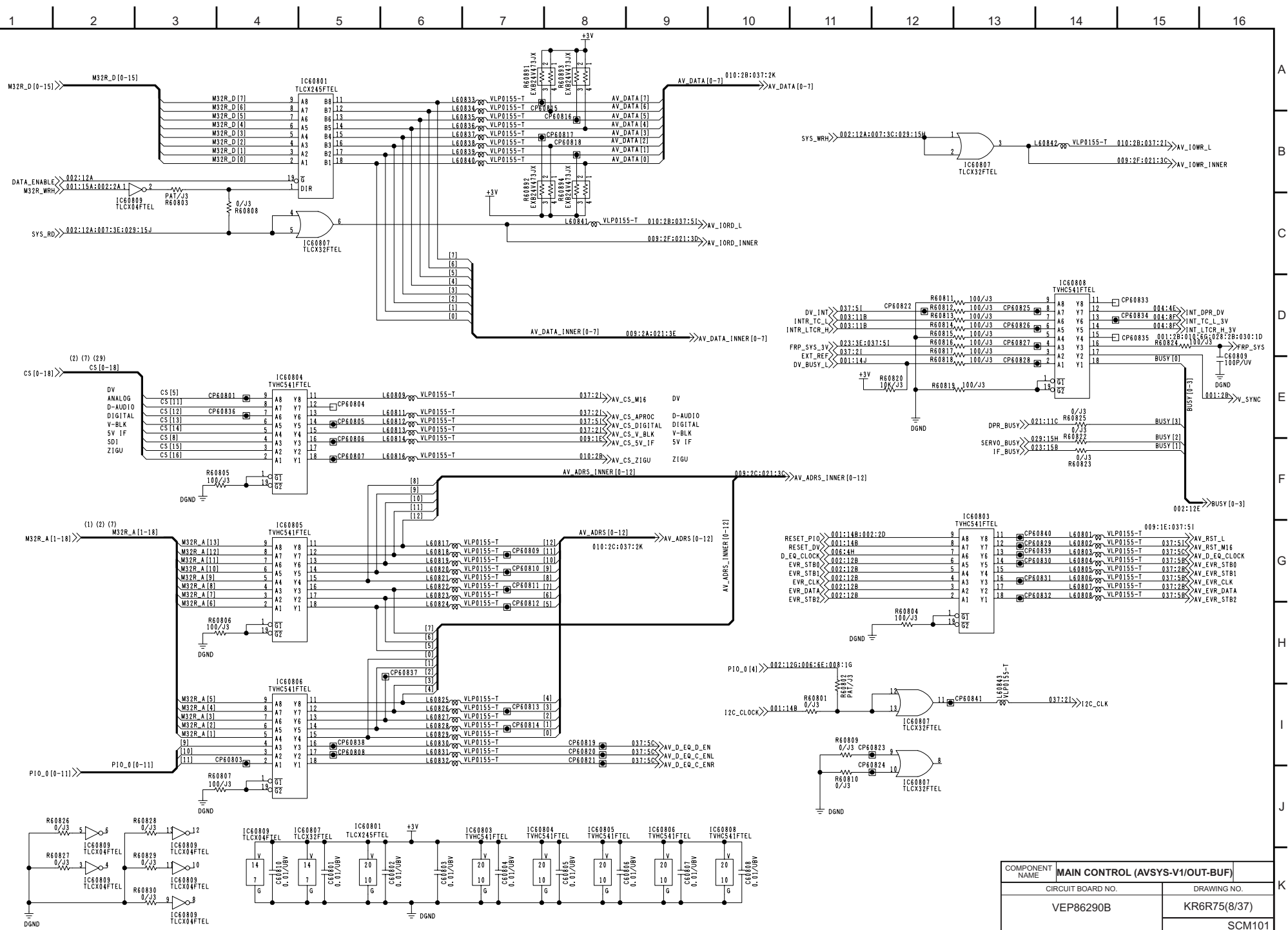
COMPONENT NAME	MAIN CONTROL (AVSYS-V1/AD, SW IF)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(6/37)	
		SCM099	





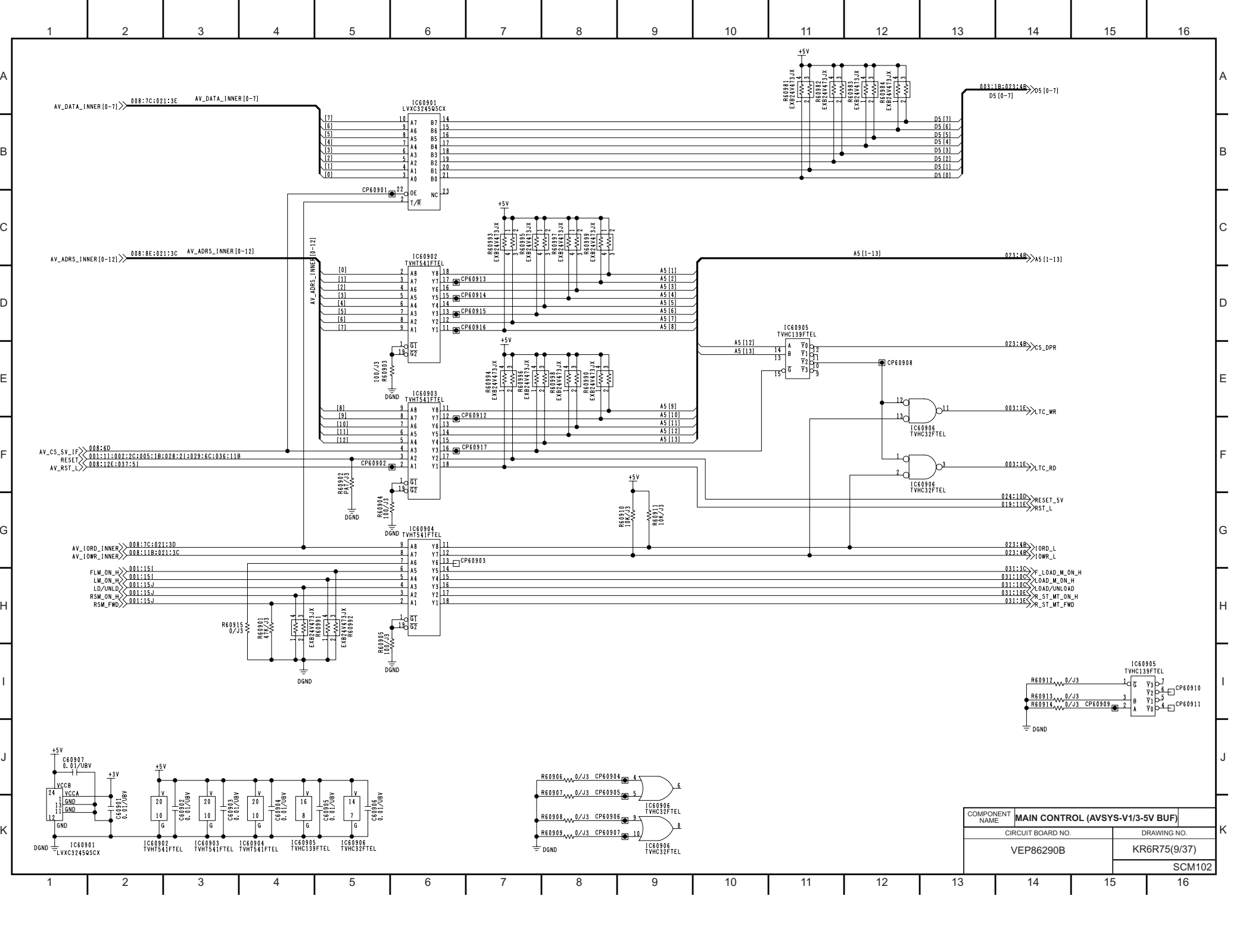
COMPONENT NAME	MAIN CONTROL (AVSYS-V1/S-RAM)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(7/37)
		SCM100





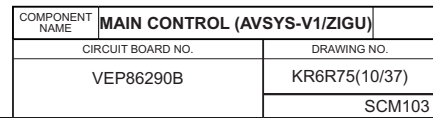
COMPONENT NAME	MAIN CONTROL (AVSYS-V1/OUT-BUF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(8/37)
		SCM101



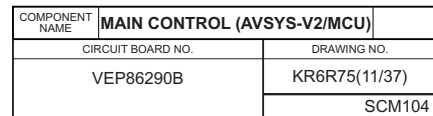


COMPONENT NAME	MAIN CONTROL (AVSYS-V1/3-5V BUF)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(9/37)	
		SCM102	

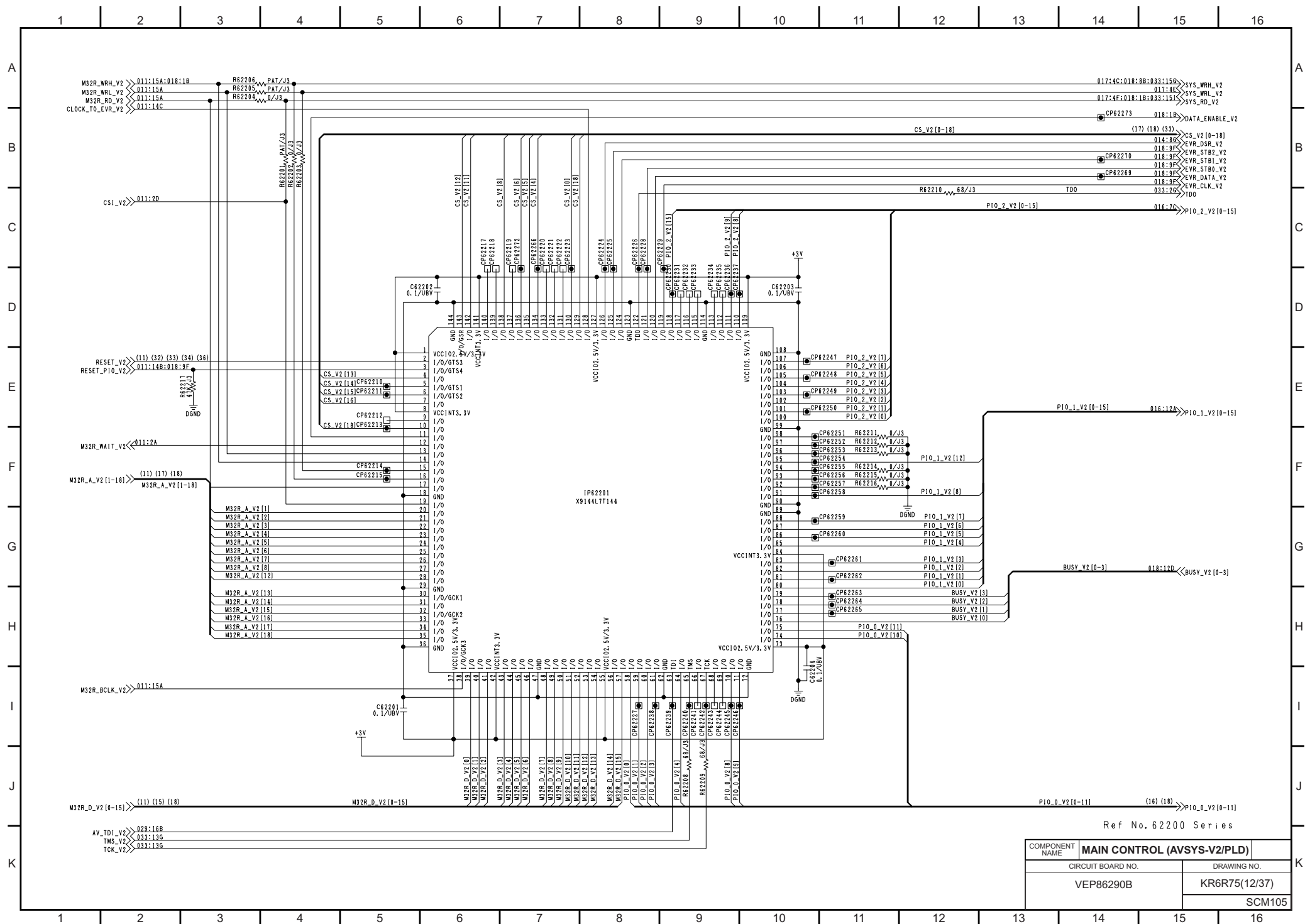








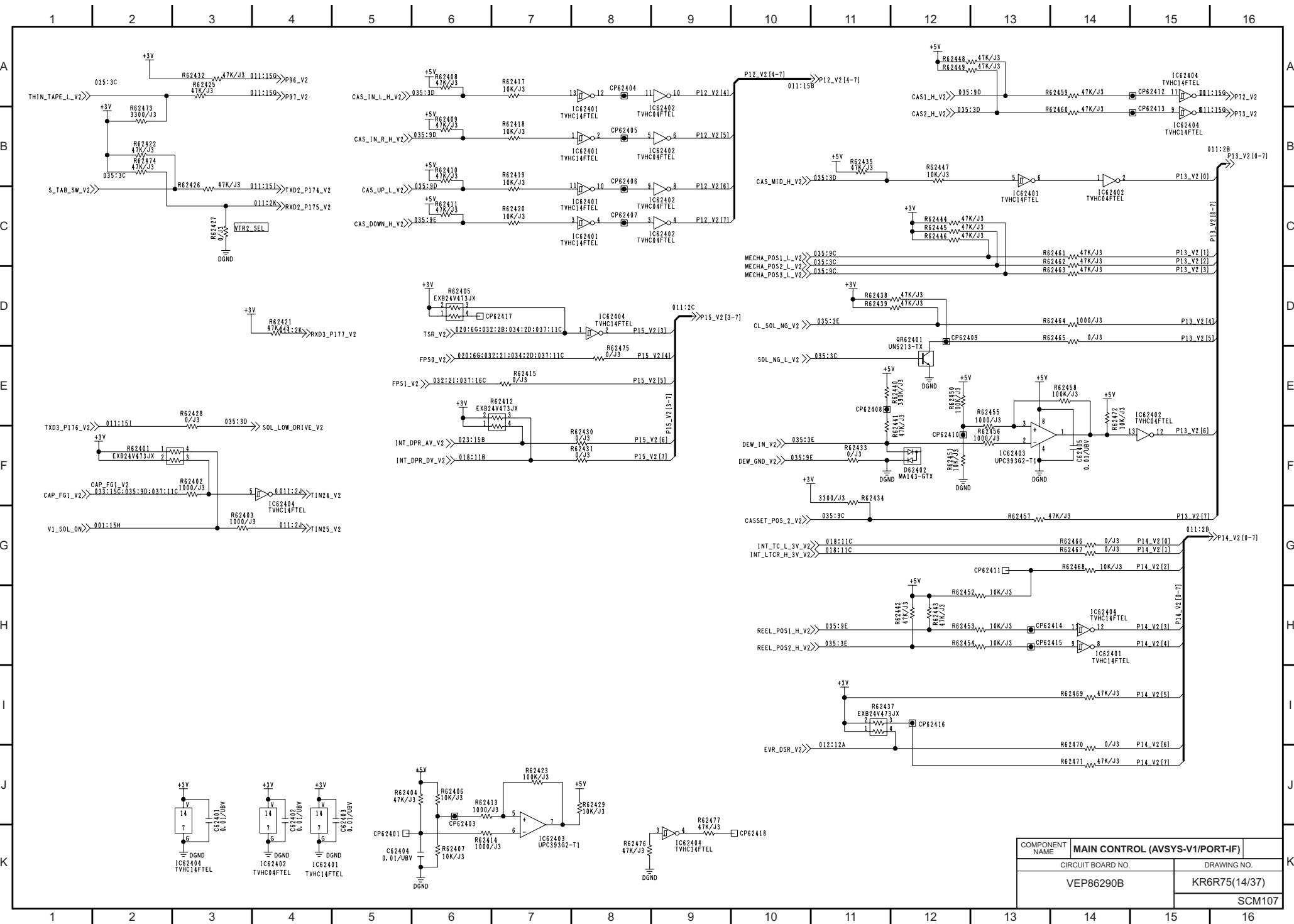






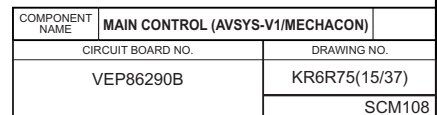






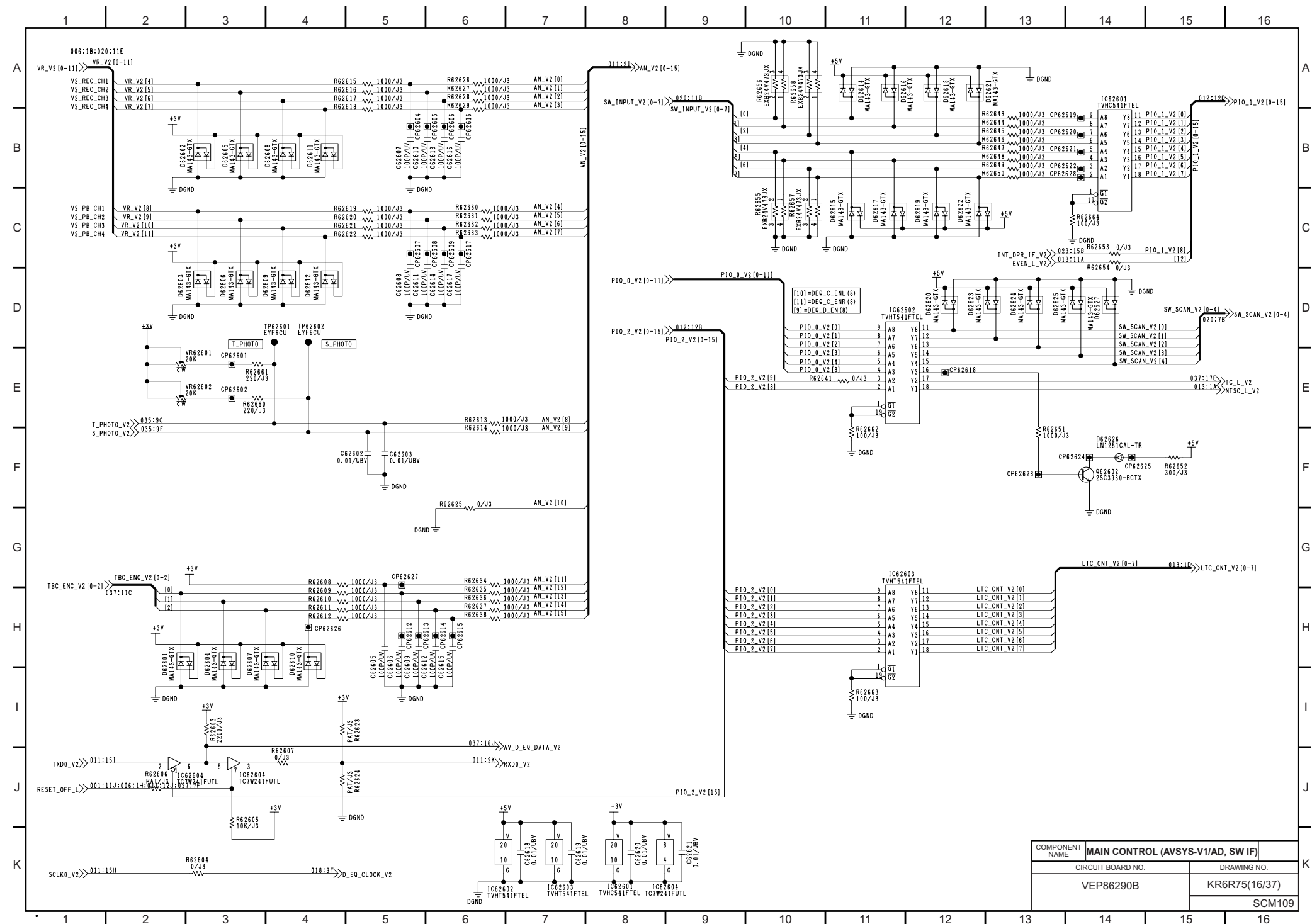
COMPONENT NAME	MAIN CONTROL (AVSYS-V1/PORT-IF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(14/37)
SCM107		



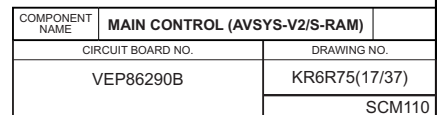


COMPONENT NAME	MAIN CONTROL (AVSYS-V1/MECHACON)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(15/37)	
		SCM108	



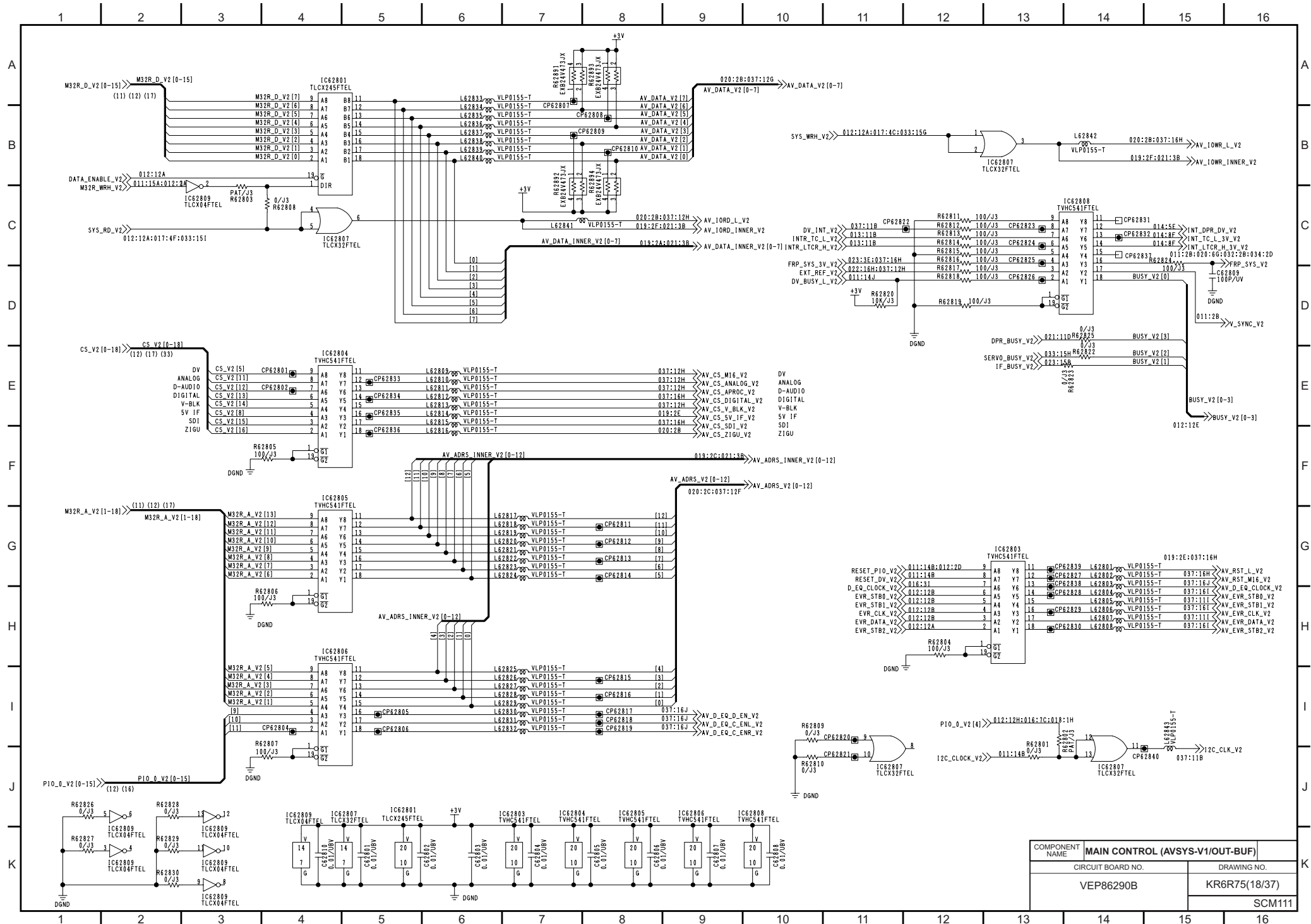




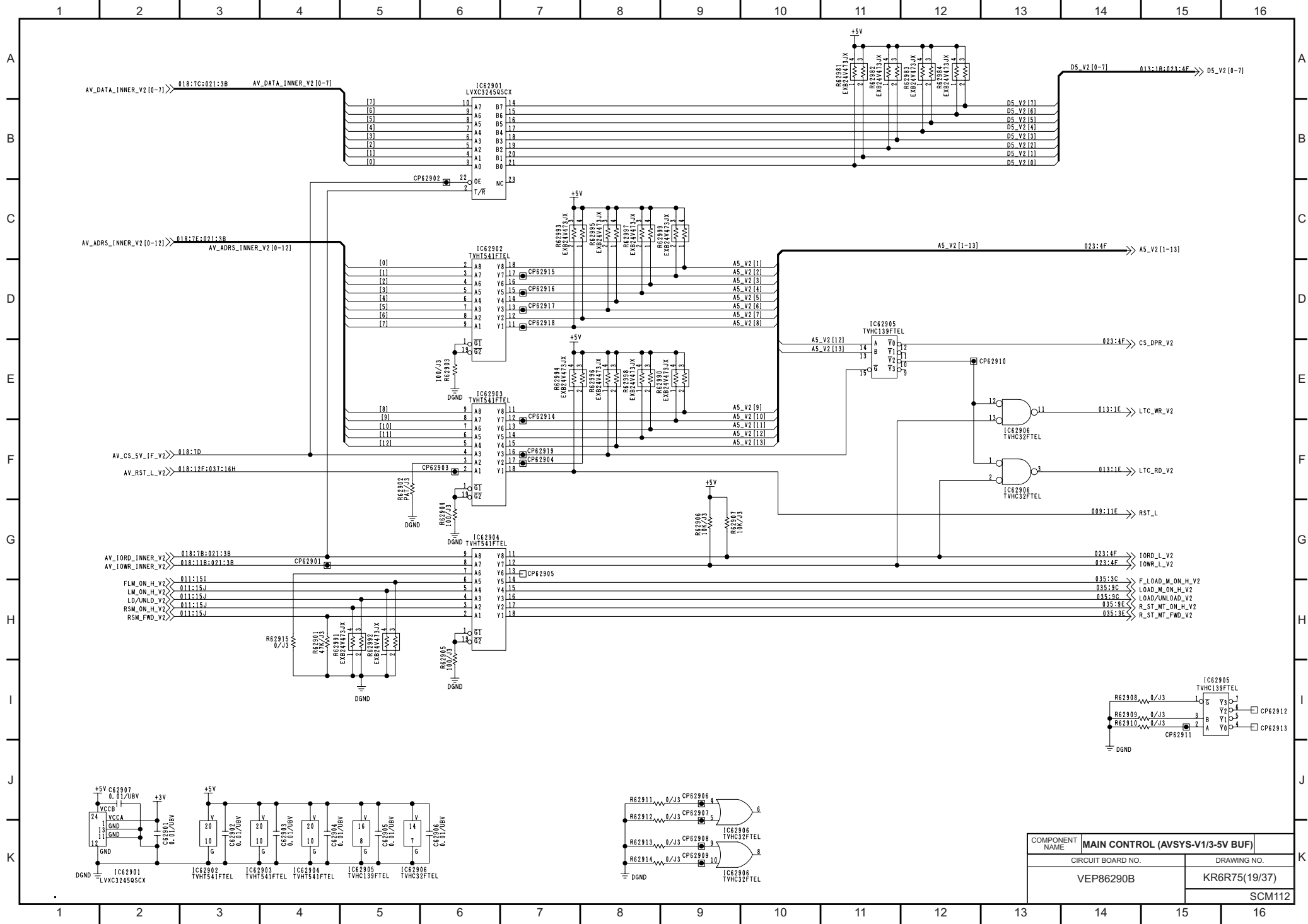


COMPONENT NAME	MAIN CONTROL (AVSYS-V2/S-RAM)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(17/37)	
		SCM110	

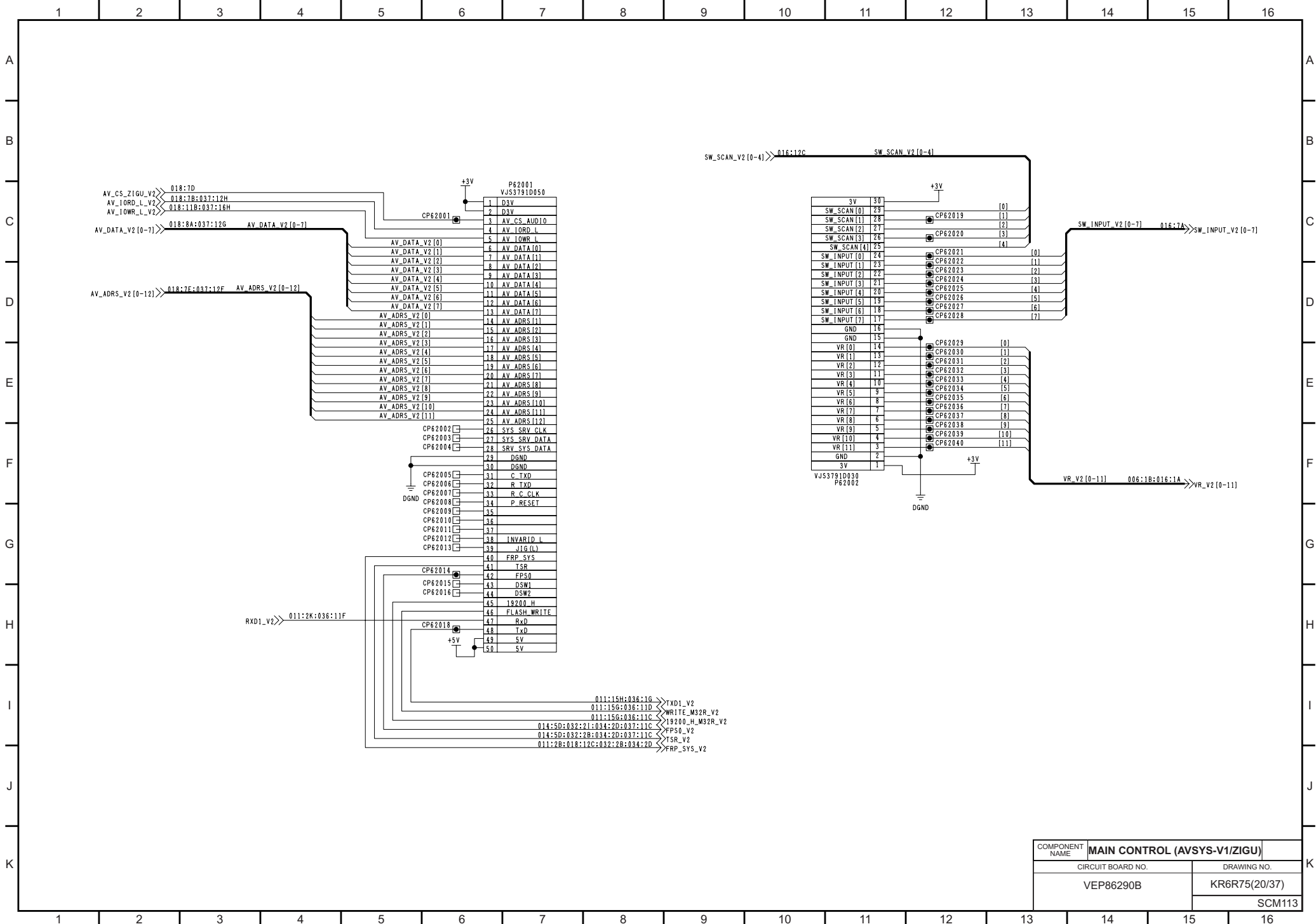




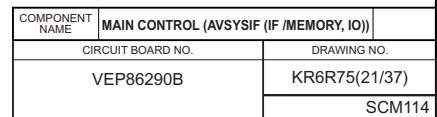




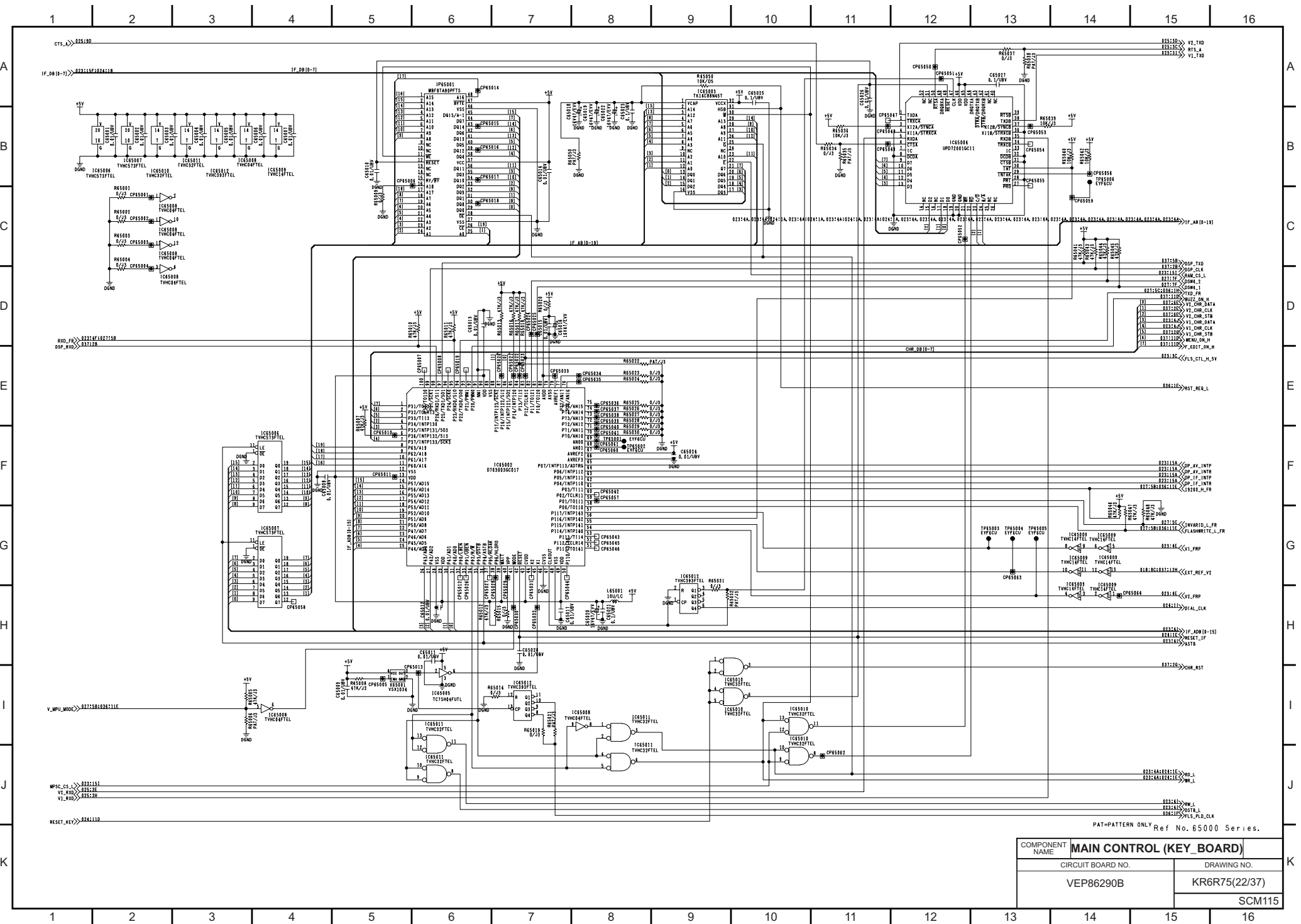






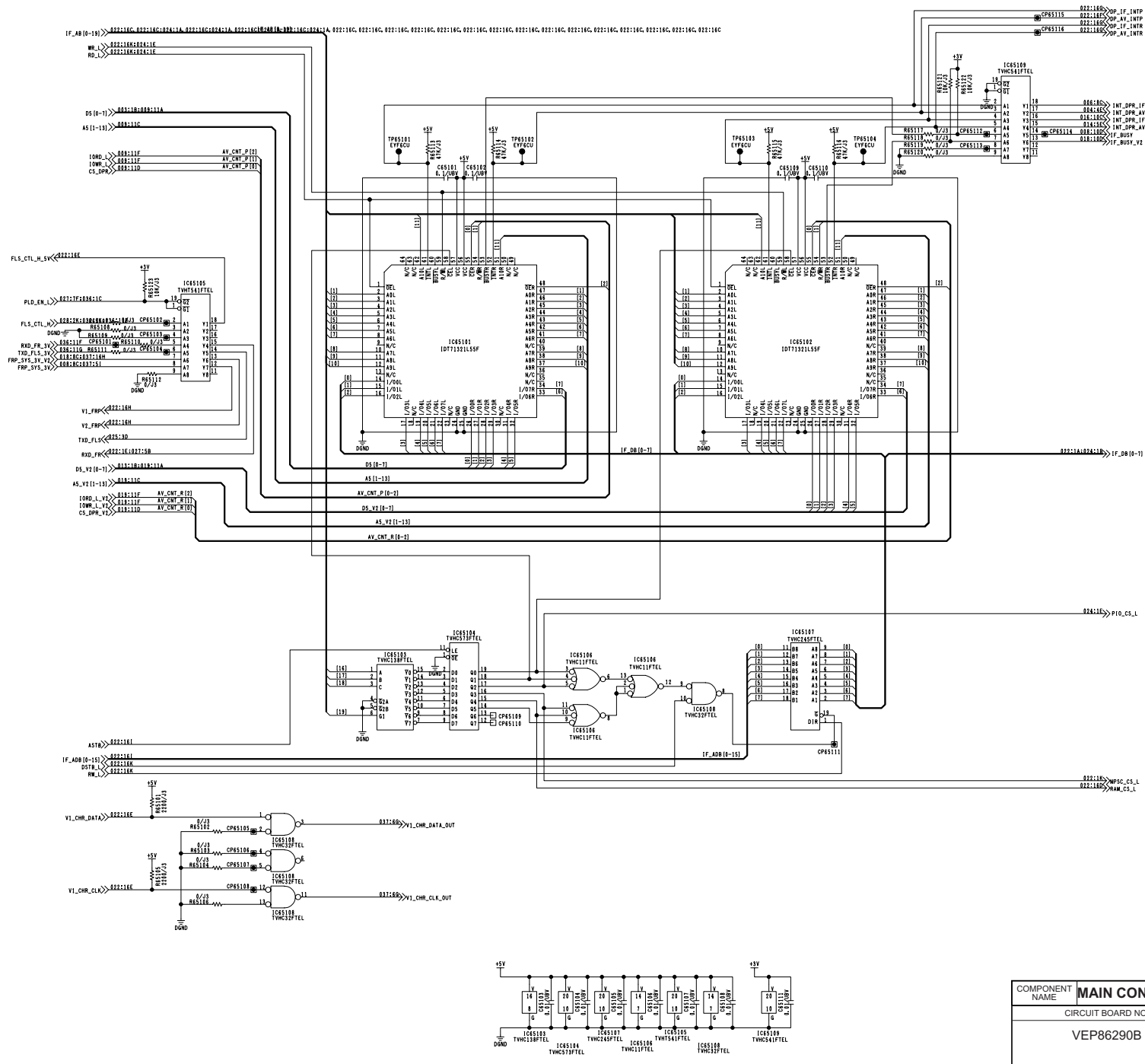




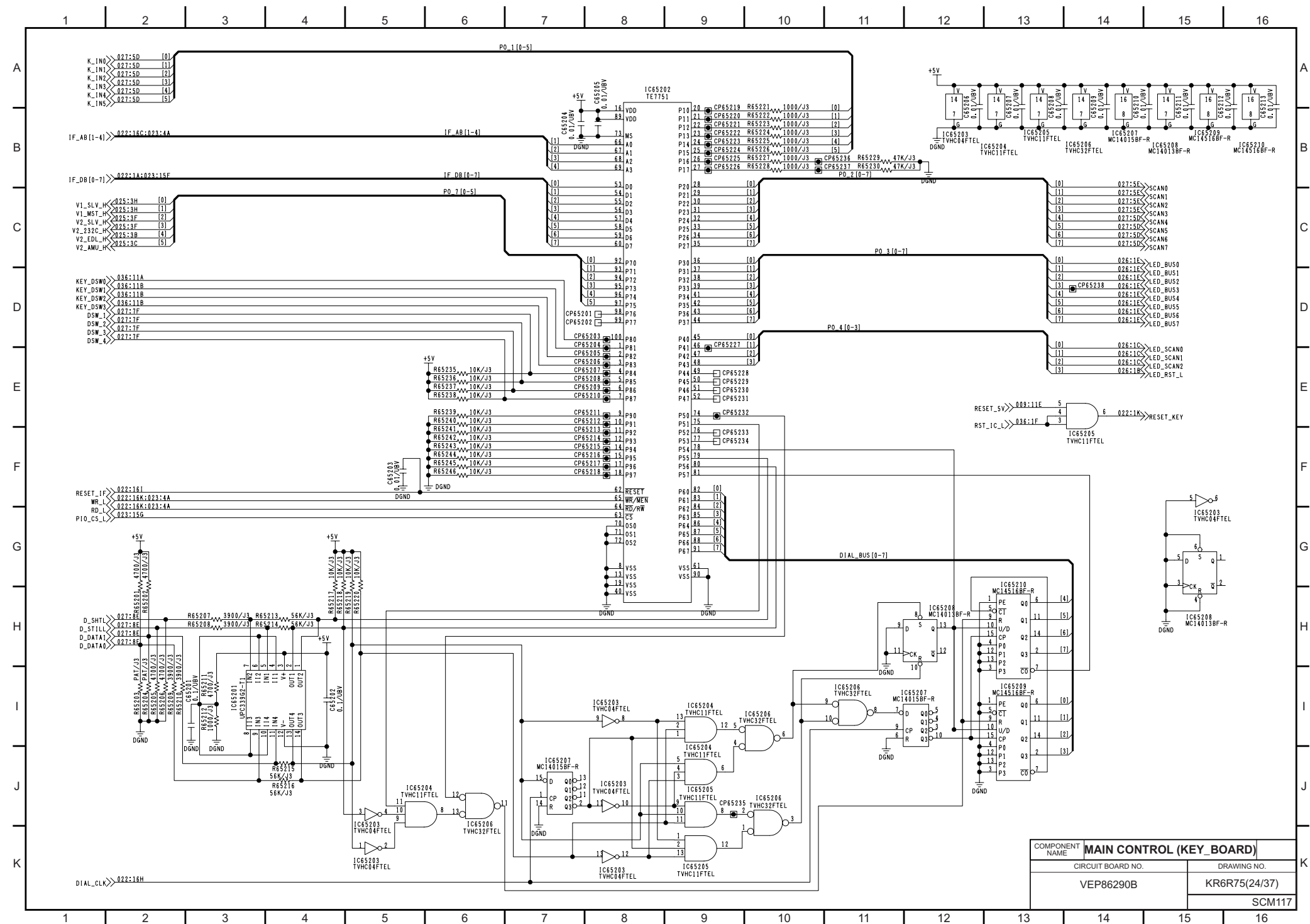


COMPONENT NAME		MAIN CONTROL (KEY_BOARD)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86290B		KR6R75(22/37)	
		SCM115	

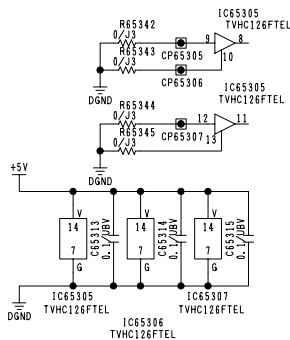
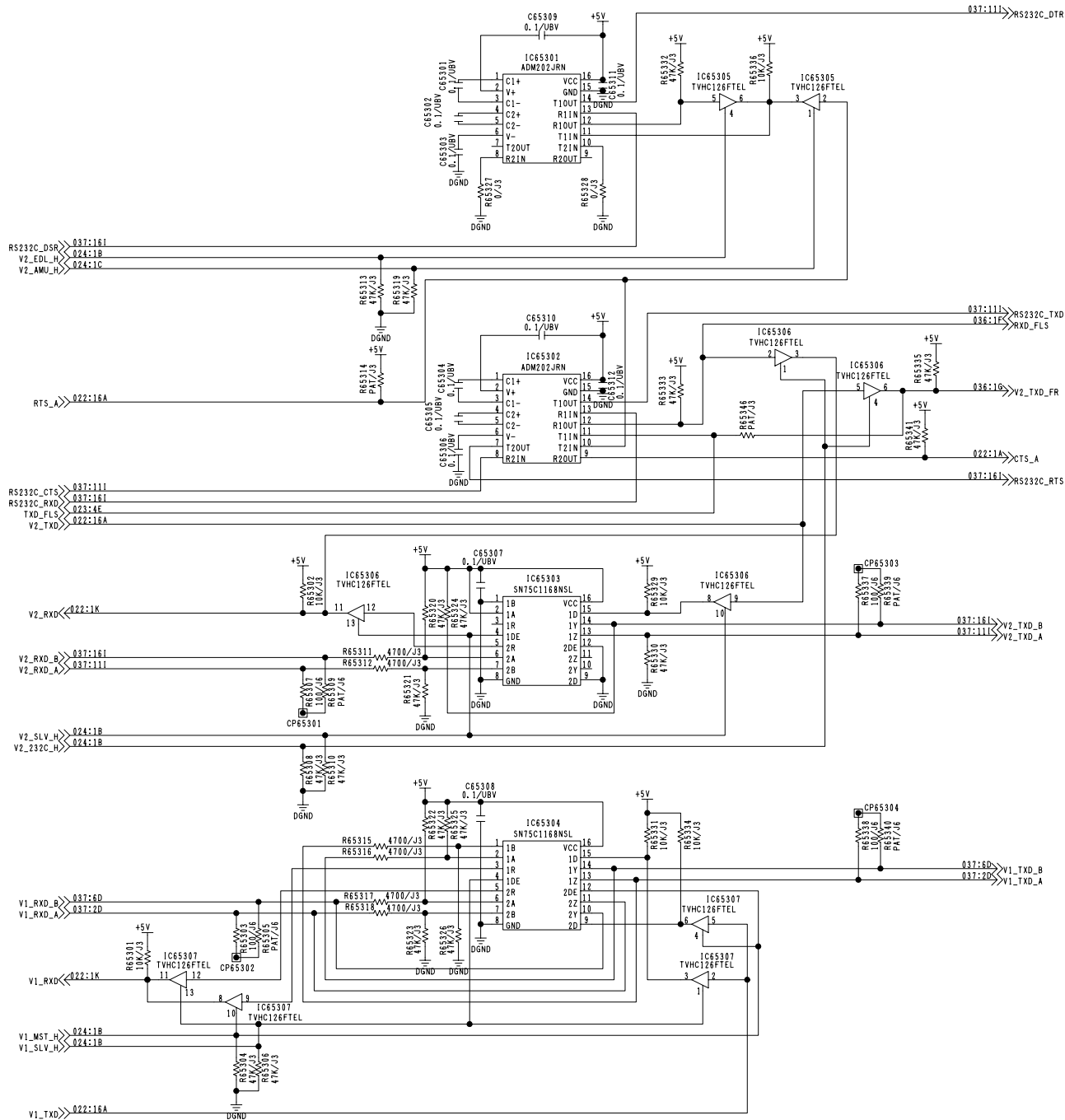






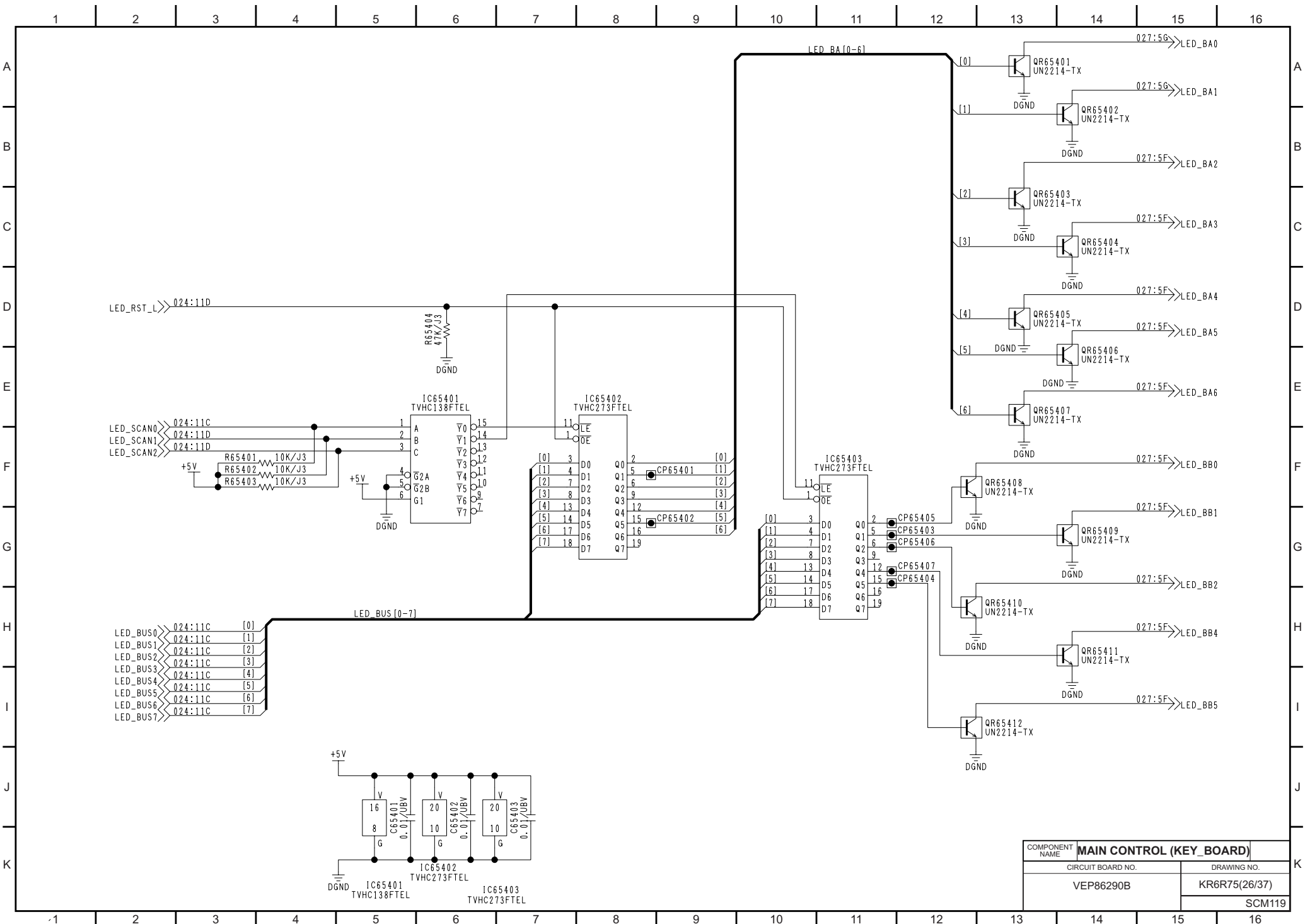




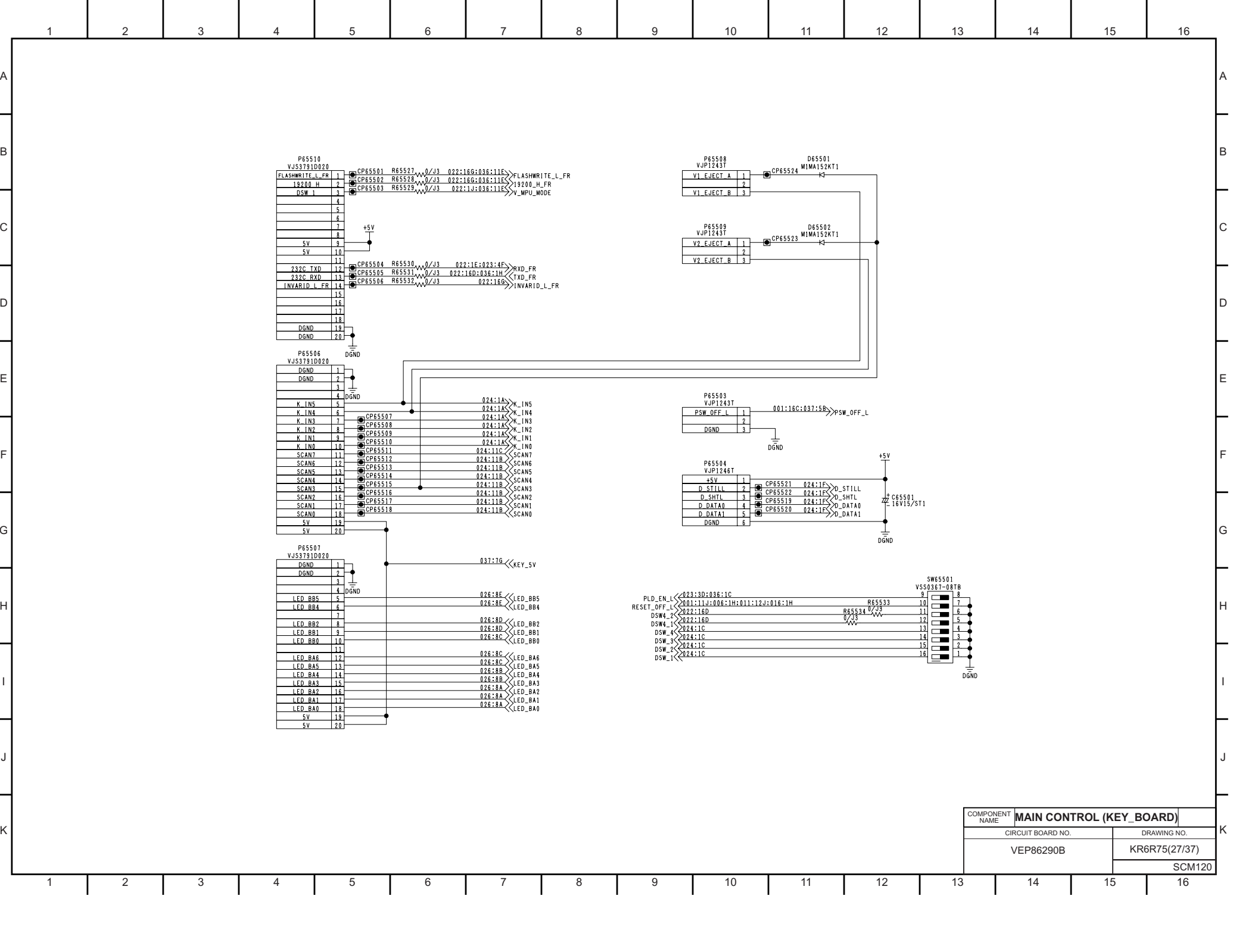


COMPONENT NAME	MAIN CONTROL (KEY_BOARD)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(25/37)
		SCM118



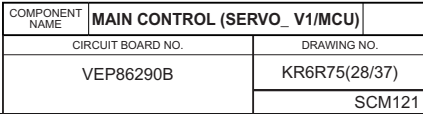




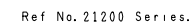


COMPONENT NAME	MAIN CONTROL (KEY_BOARD)	
CIRCUIT BOARD NO.	VEP86290B	DRAWING NO.
		KR6R75(27/37)
		SCM120

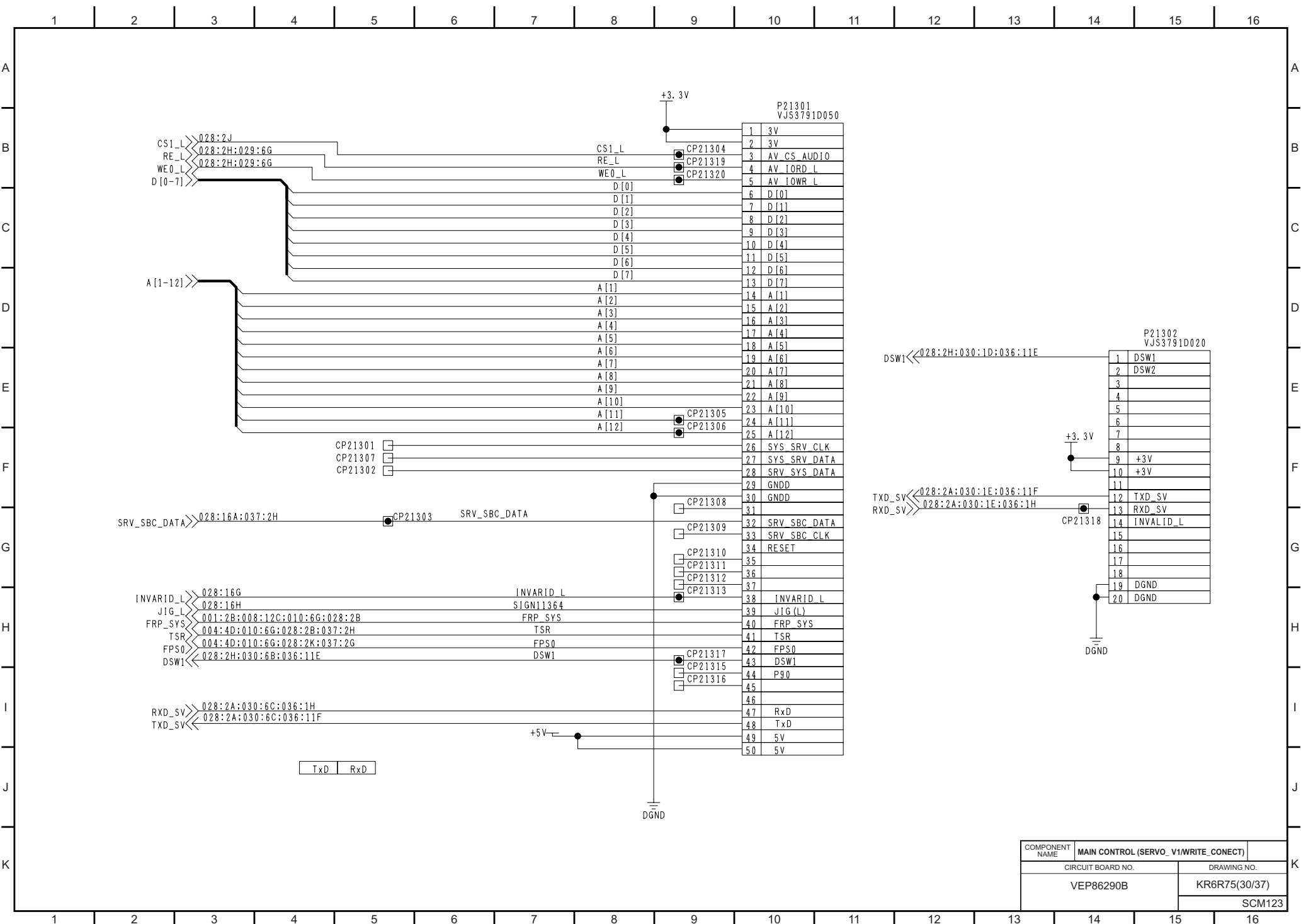




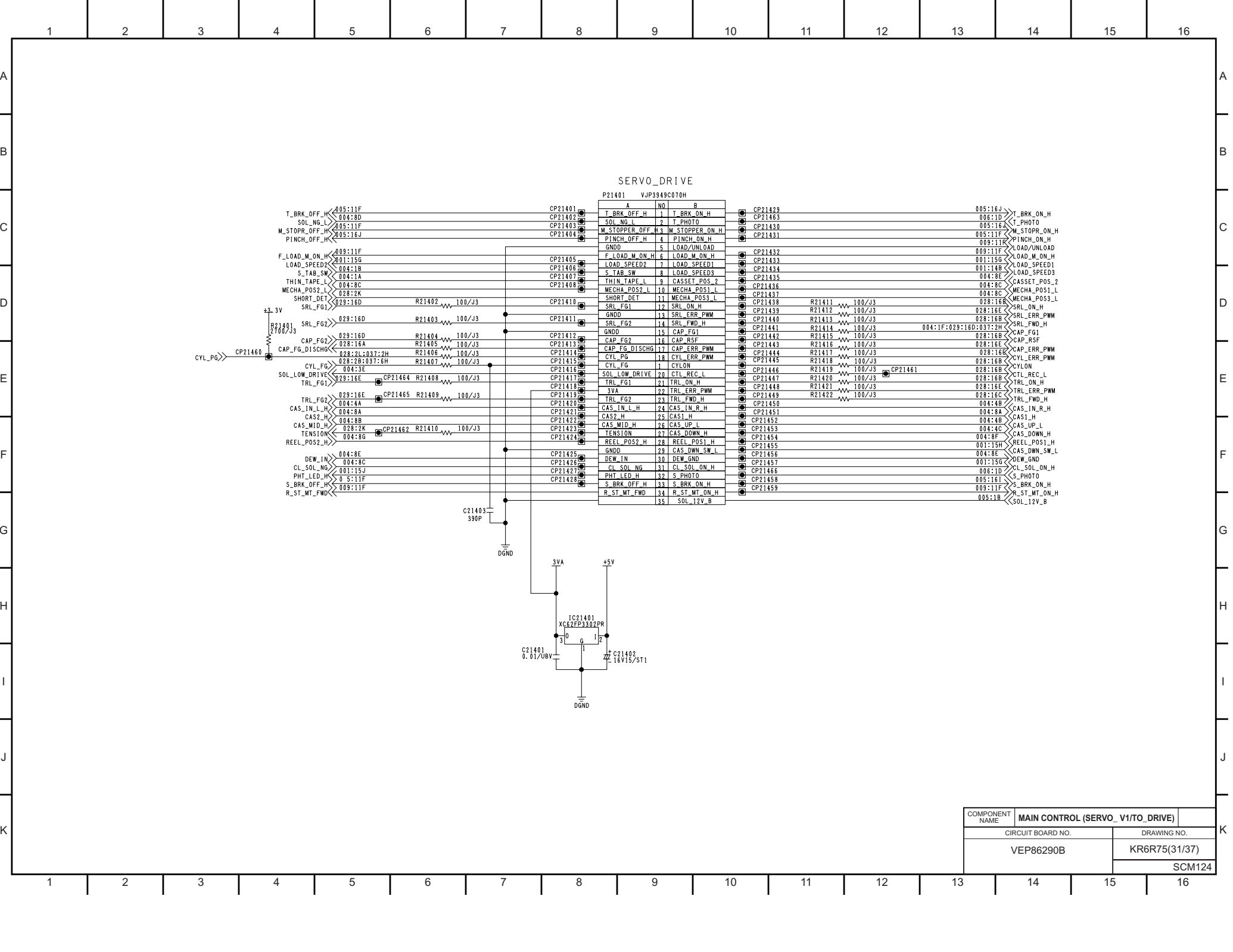


SCM122



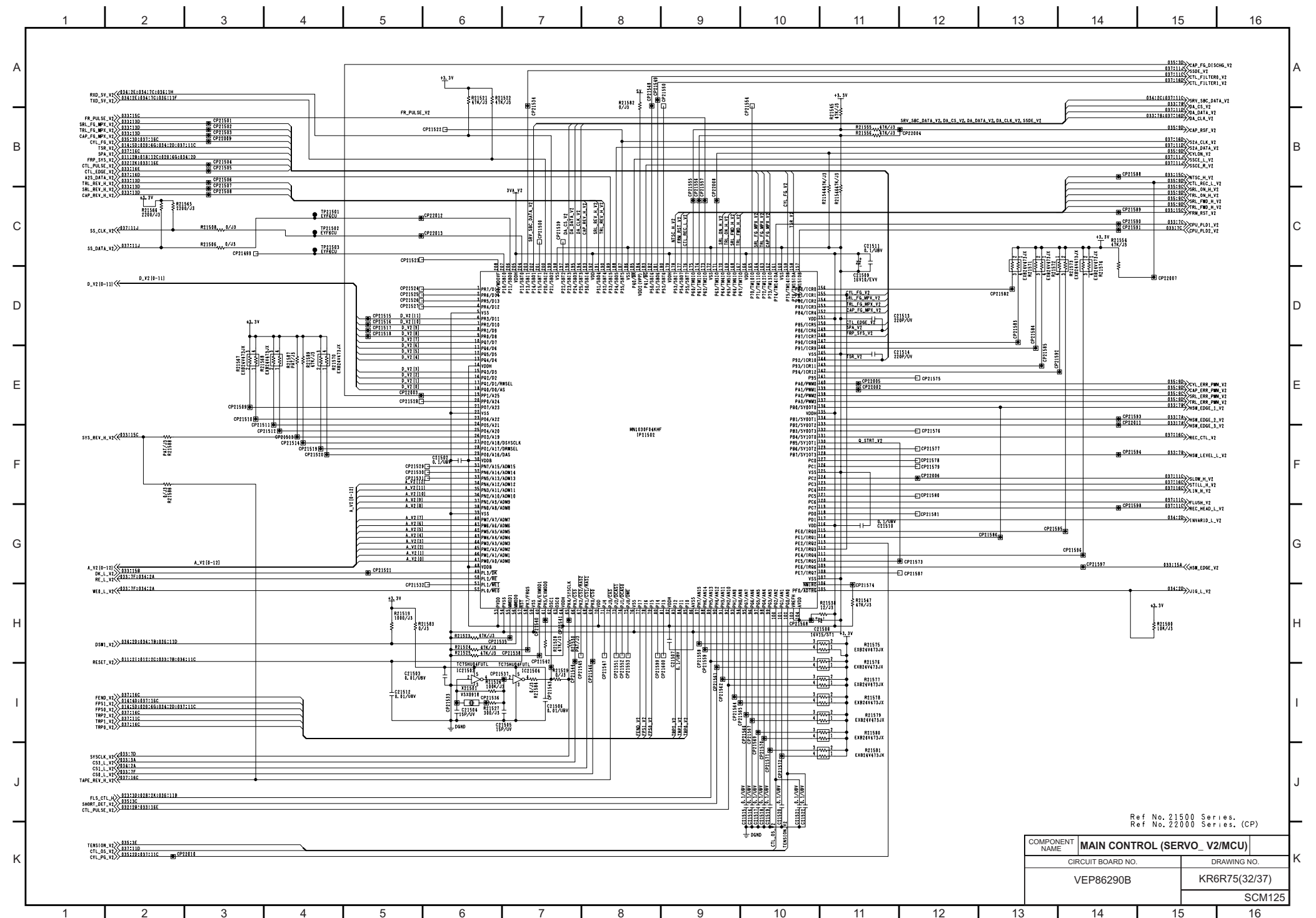






COMPONENT NAME	MAIN CONTROL (SERVO_V1/TO_DRIVE)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP68290B		KR6R75(31/37)
SCM124		





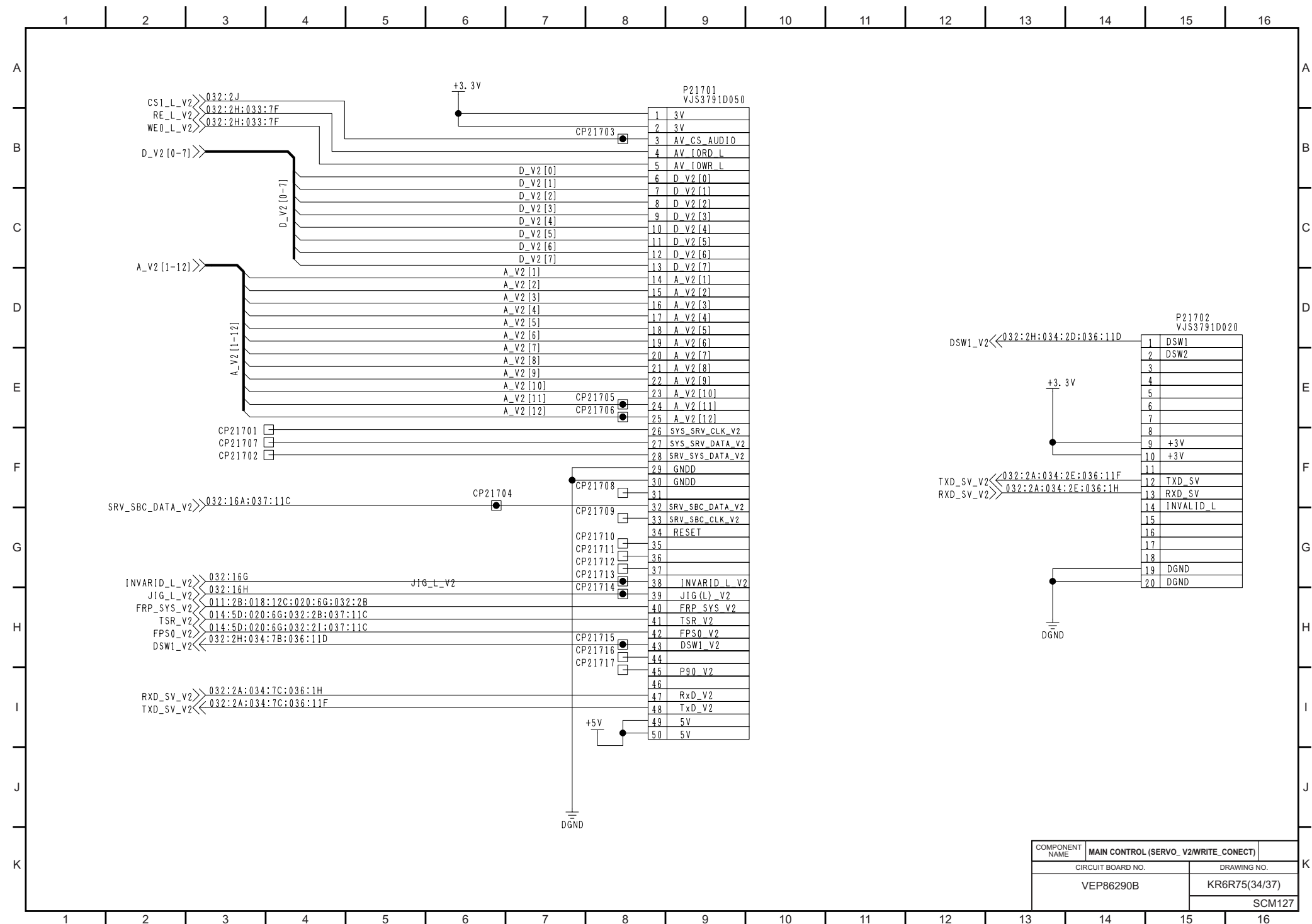
Ref No. 21500 Series.  
Ref No. 22000 Series. (CP)

COMPONENT NAME	MAIN CONTROL (SERVO_ V2/MCU)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86290B	KR6R75(32/37)	
	SCM125	

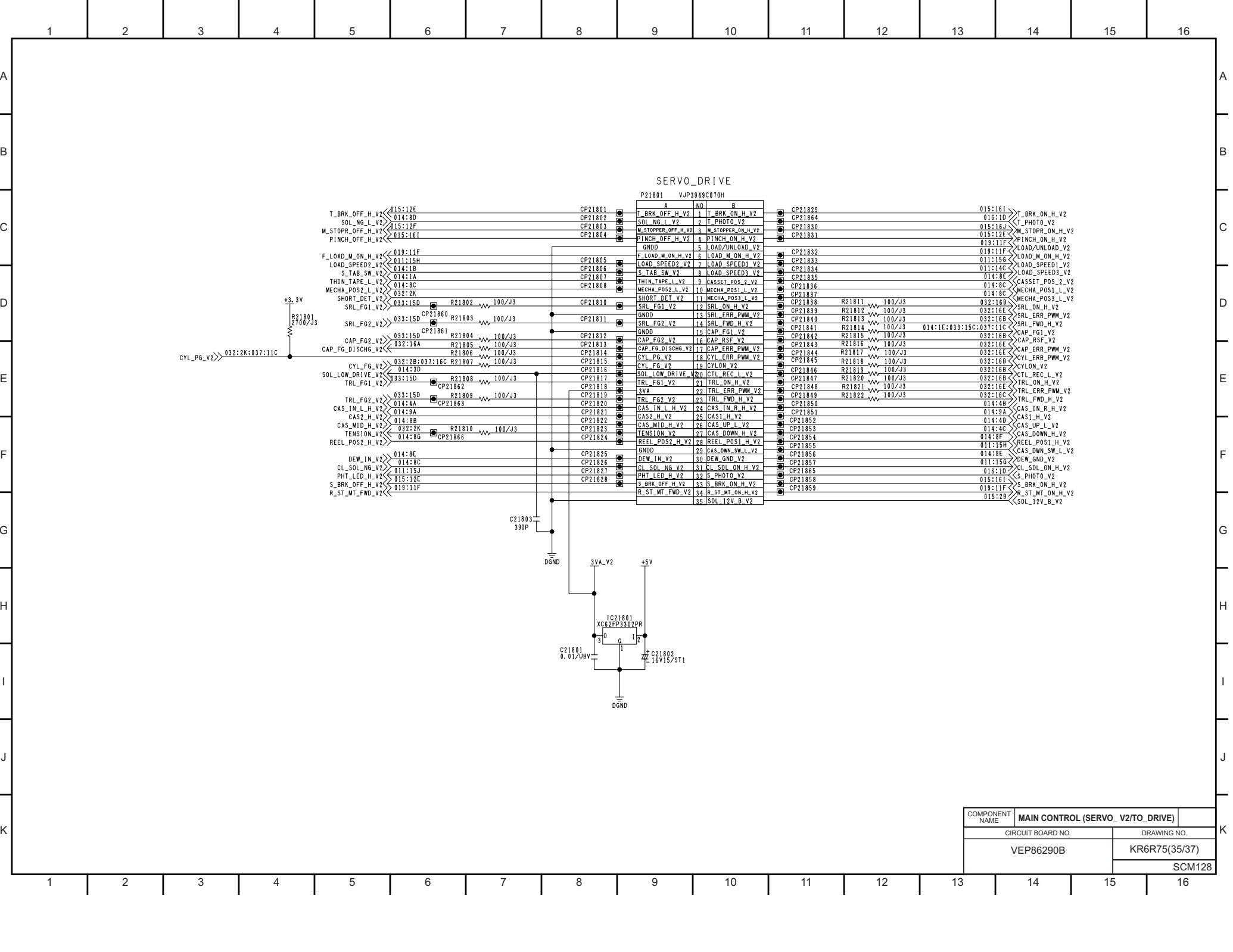






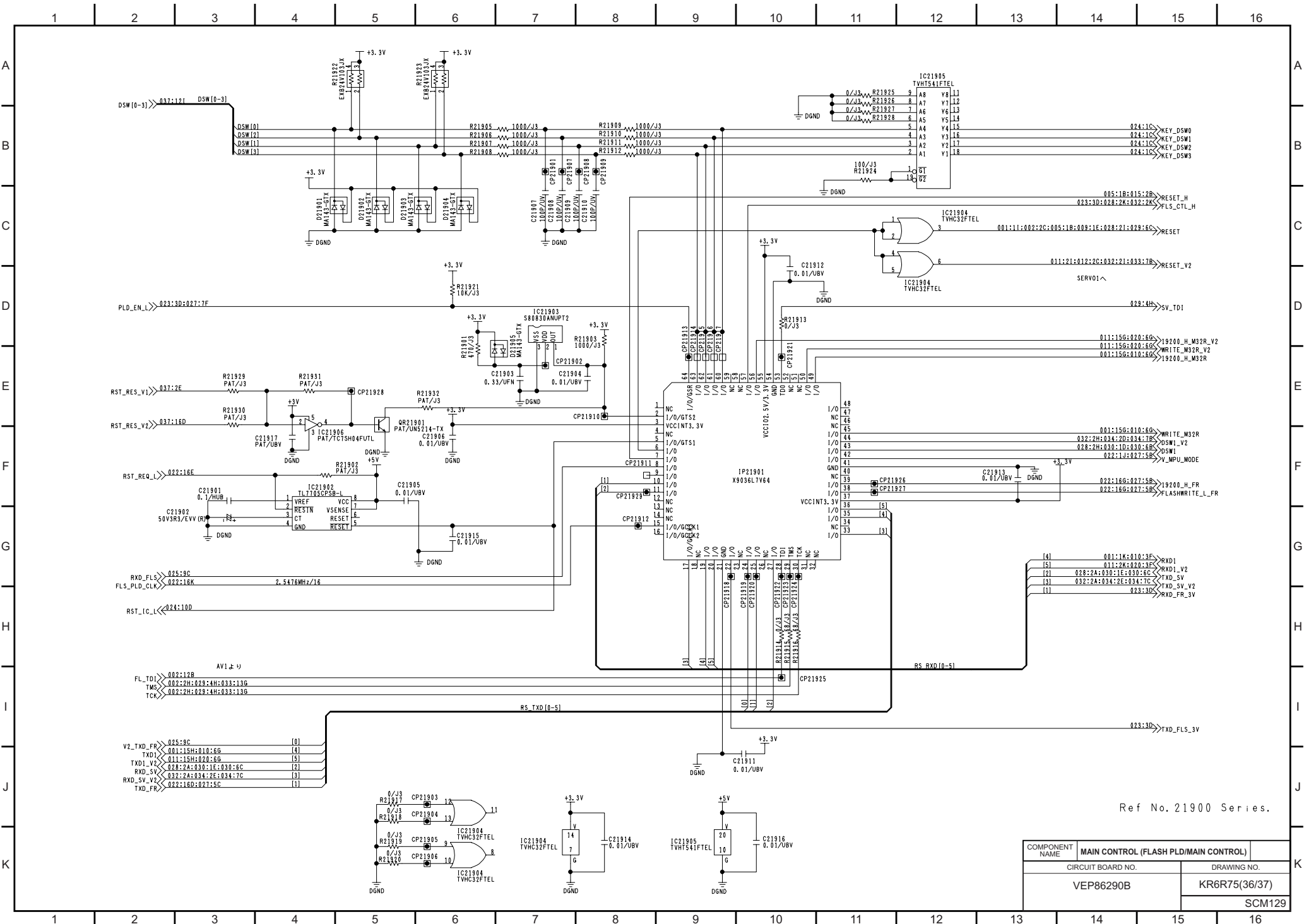




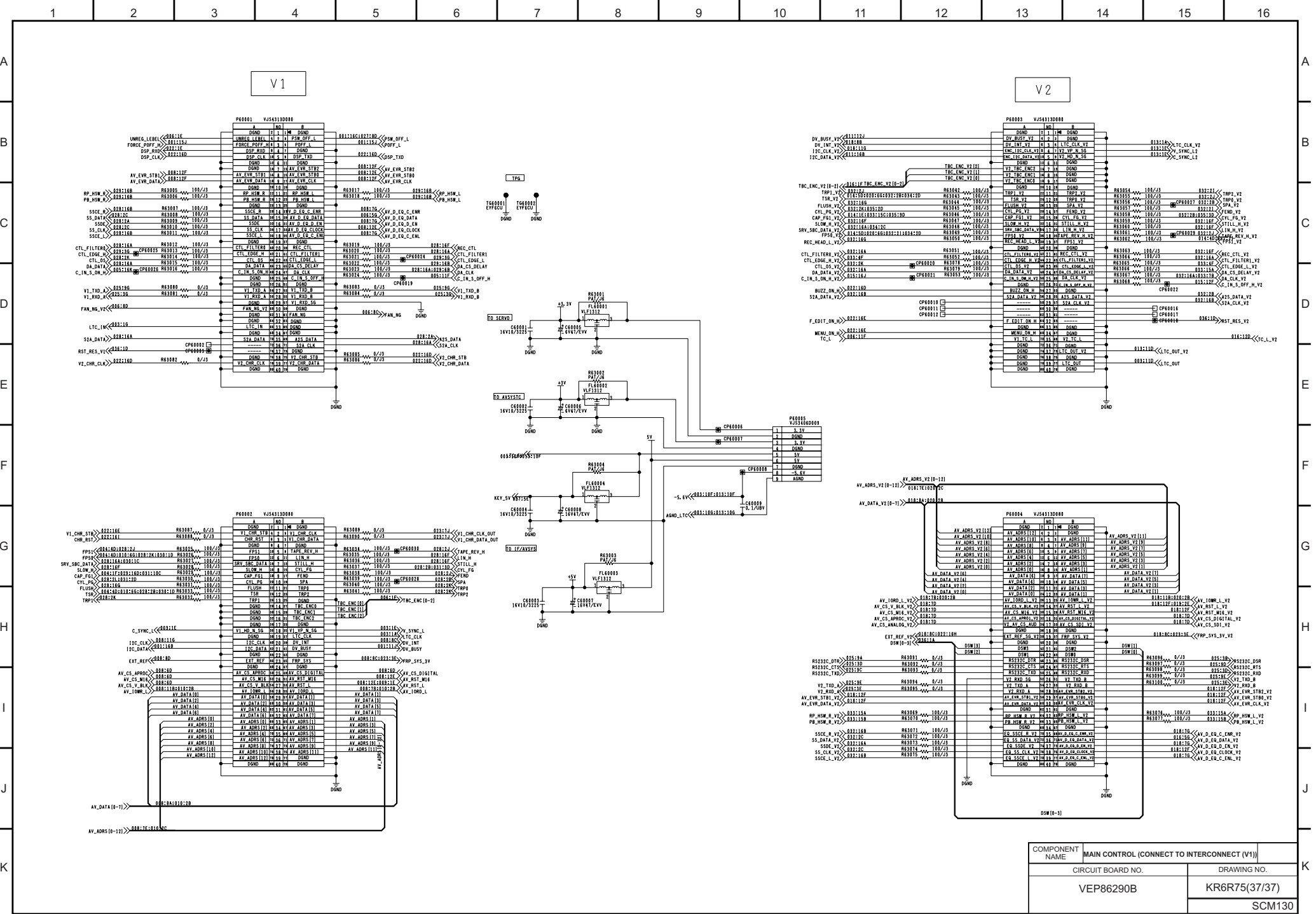


COMPONENT NAME	MAIN CONTROL (SERVO_V2/TO_DRIVE)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(35/37)
SCM128		



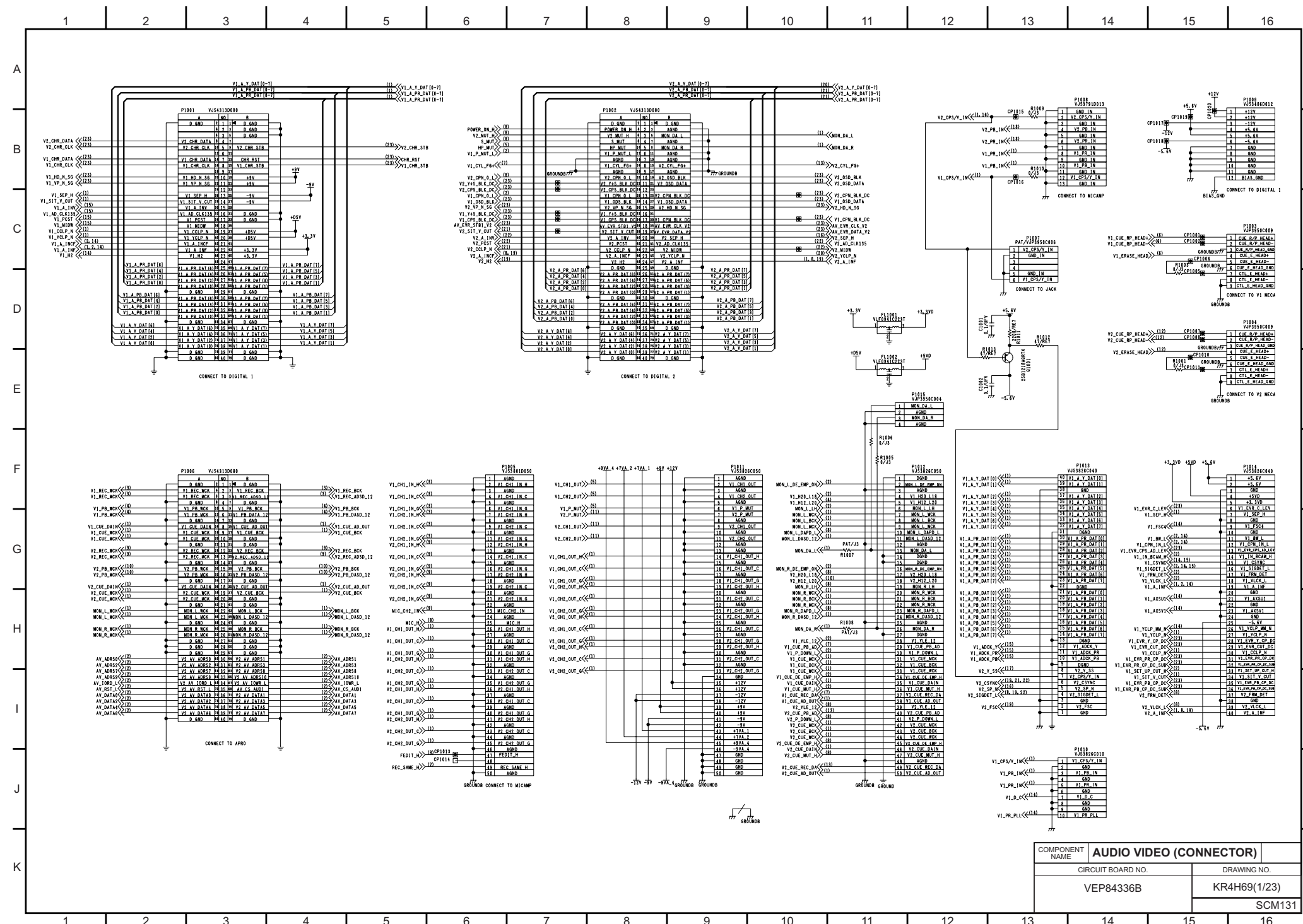




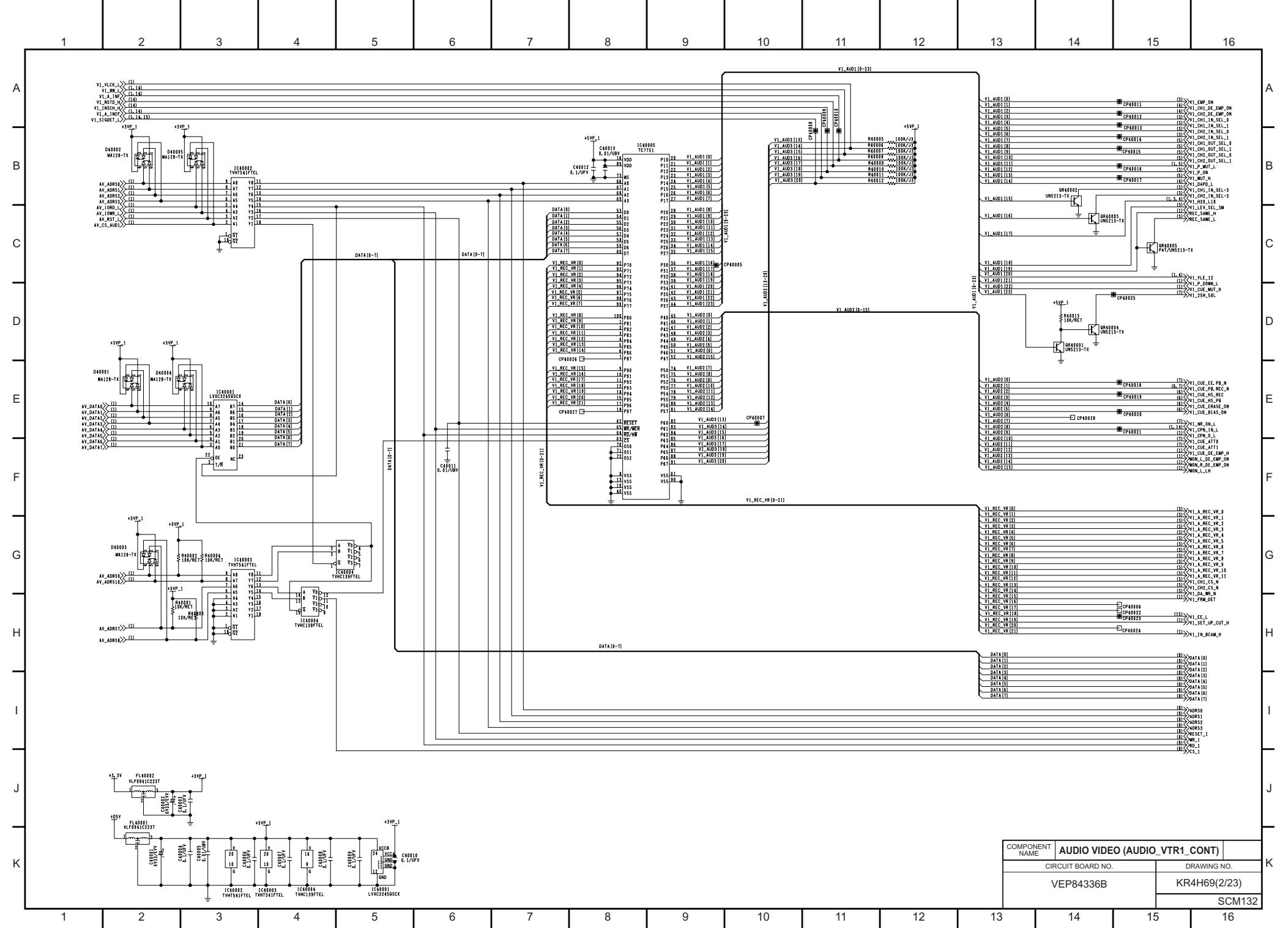


COMPONENT NAME	MAIN CONTROL (CONNECT TO INTERCONNECT (V1))	
CIRCUIT BOARD NO.		DRAWING NO.
VEP86290B		KR6R75(37/37)
		SCM130

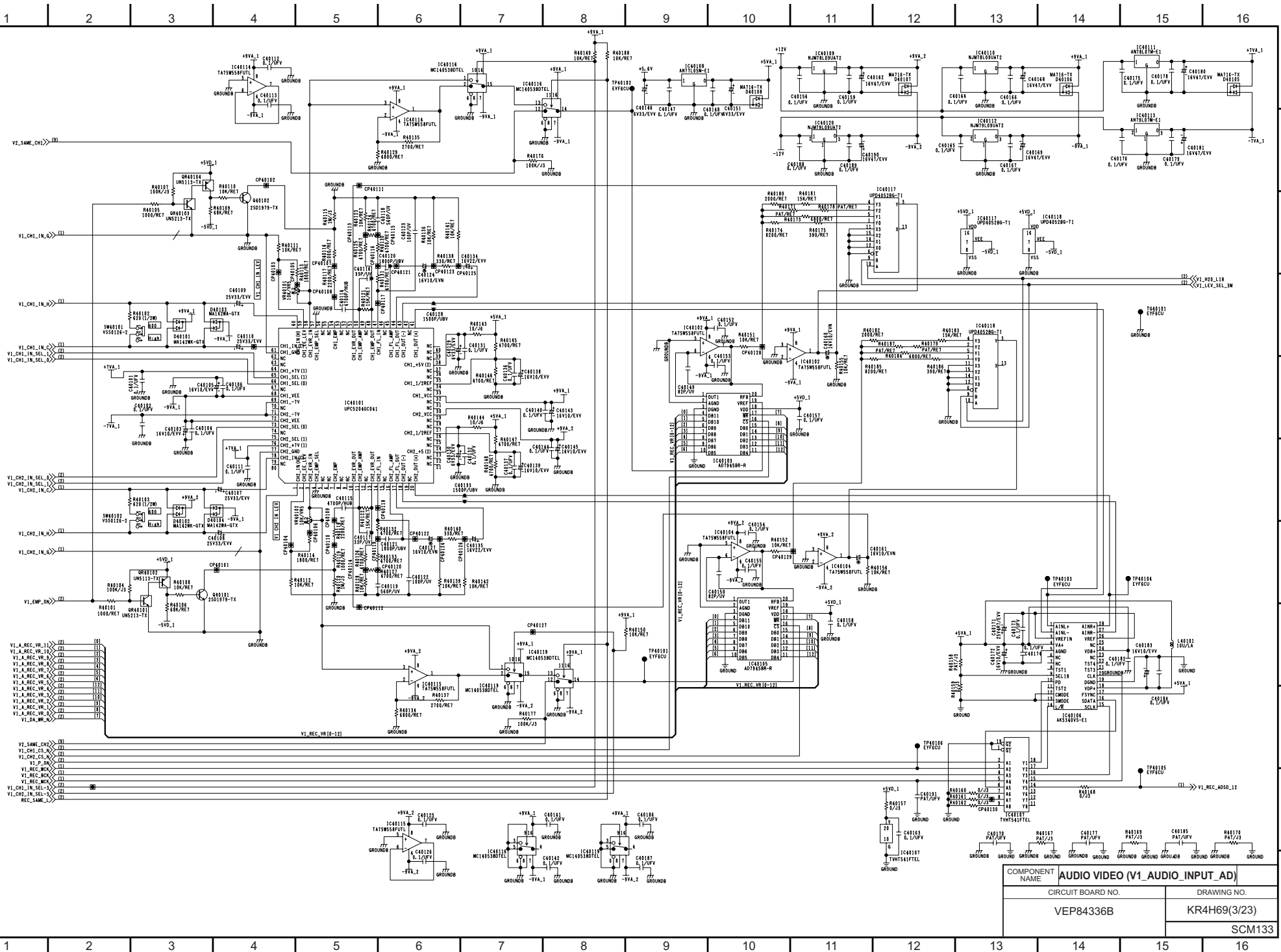




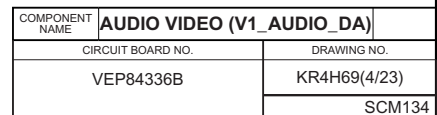




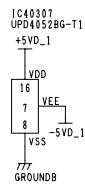
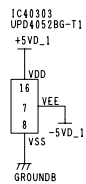
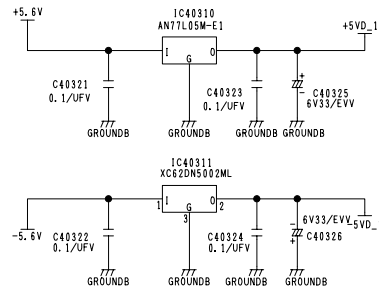
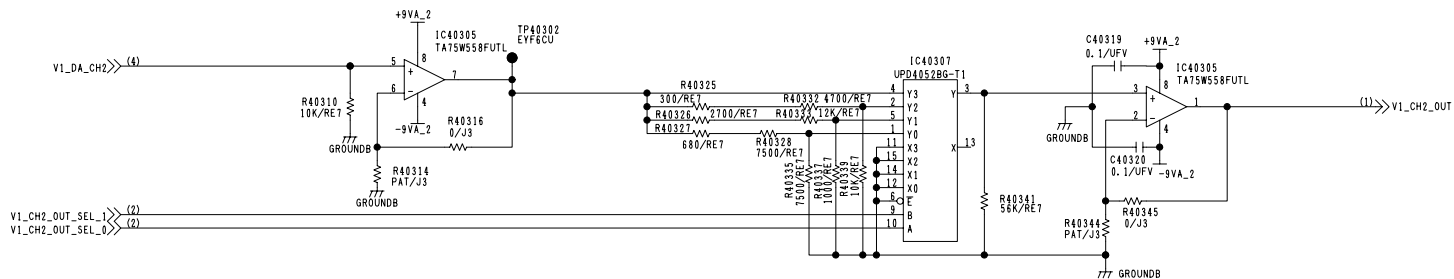
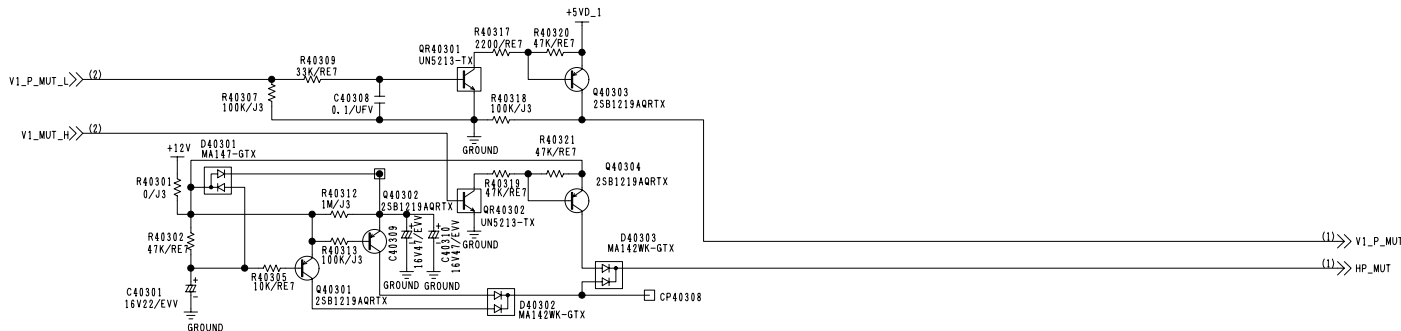
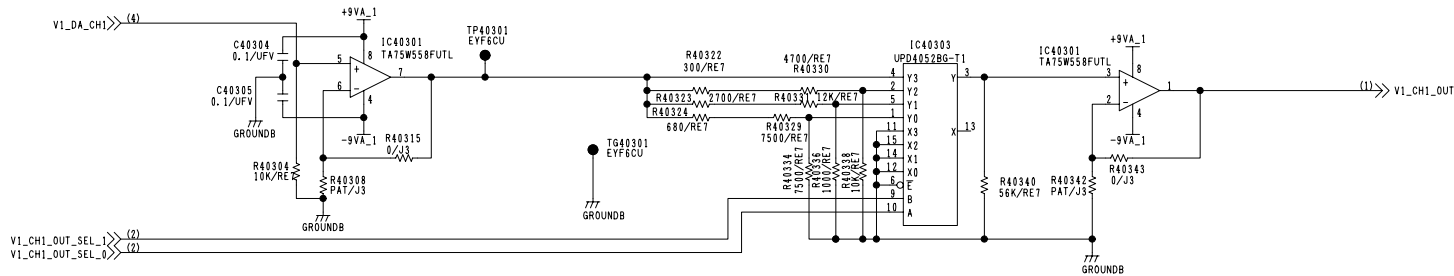






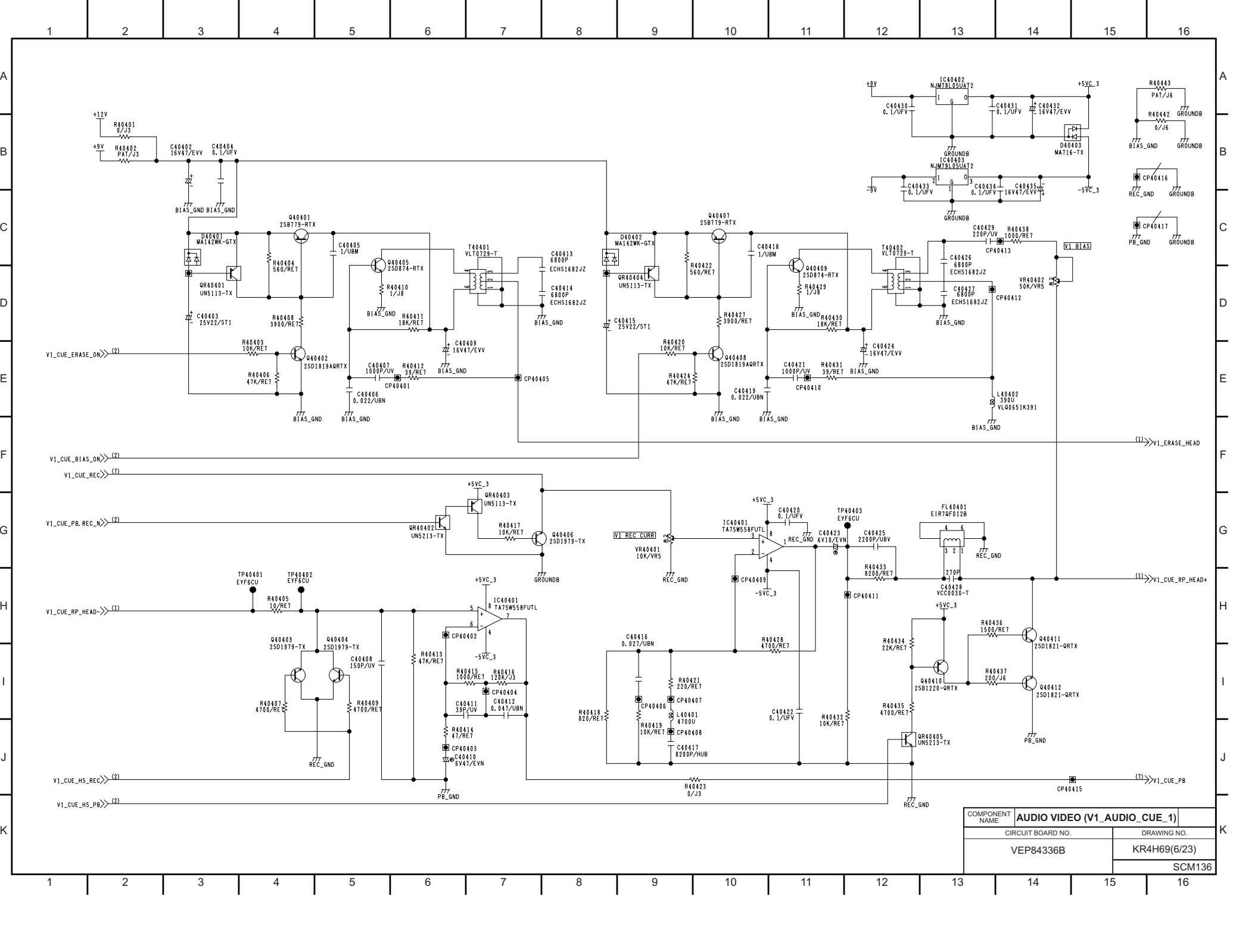






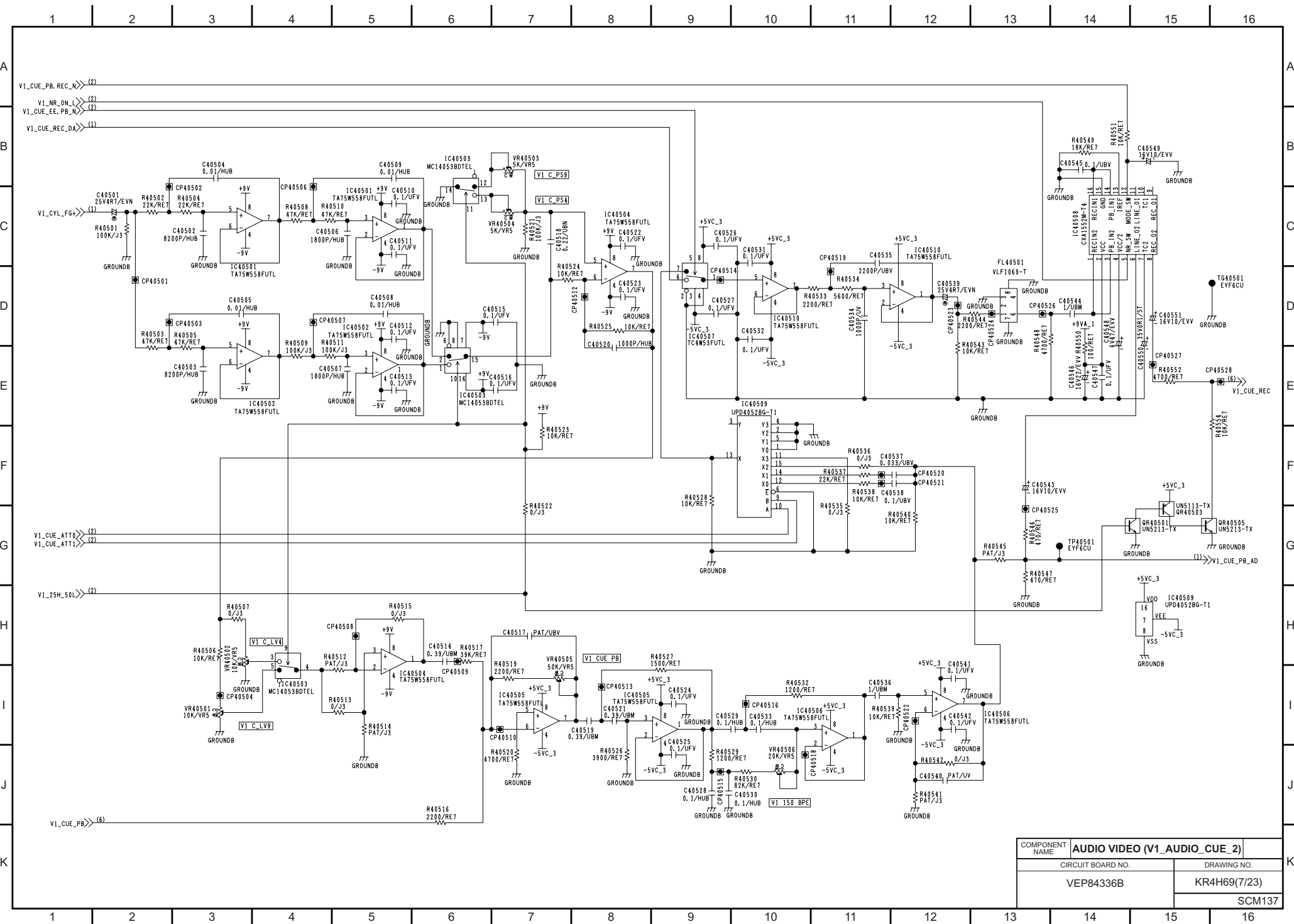
COMPONENT NAME	AUDIO VIDEO (V1_AUDIO_OUTPUT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84336B		KR4H69(5/23)
SCM135		



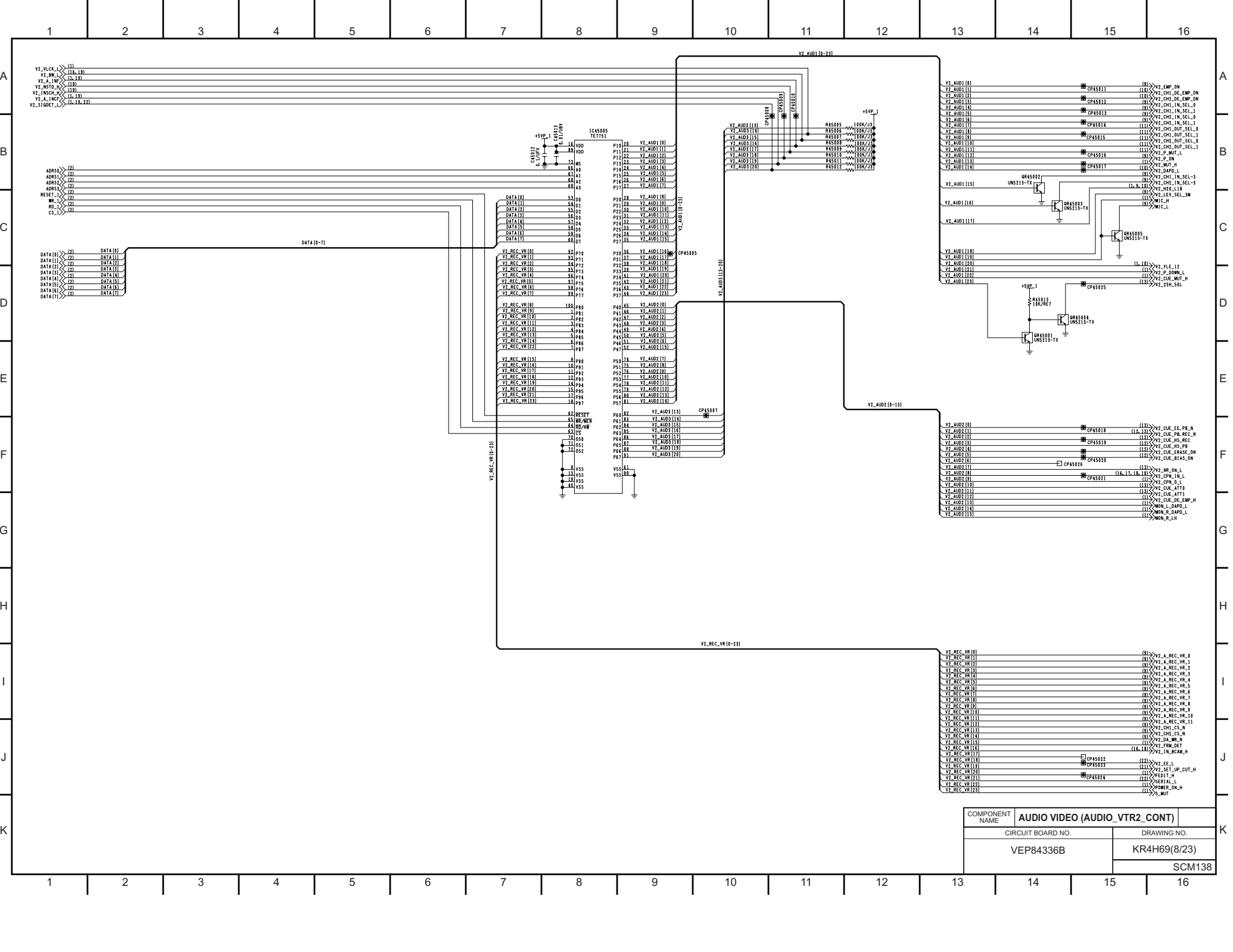


COMPONENT NAME	AUDIO VIDEO (V1_AUDIO_CUE_1)	
CIRCUIT BOARD NO.	VEP84336B	DRAWING NO.
		KR4H69(6/23)
		SCM136



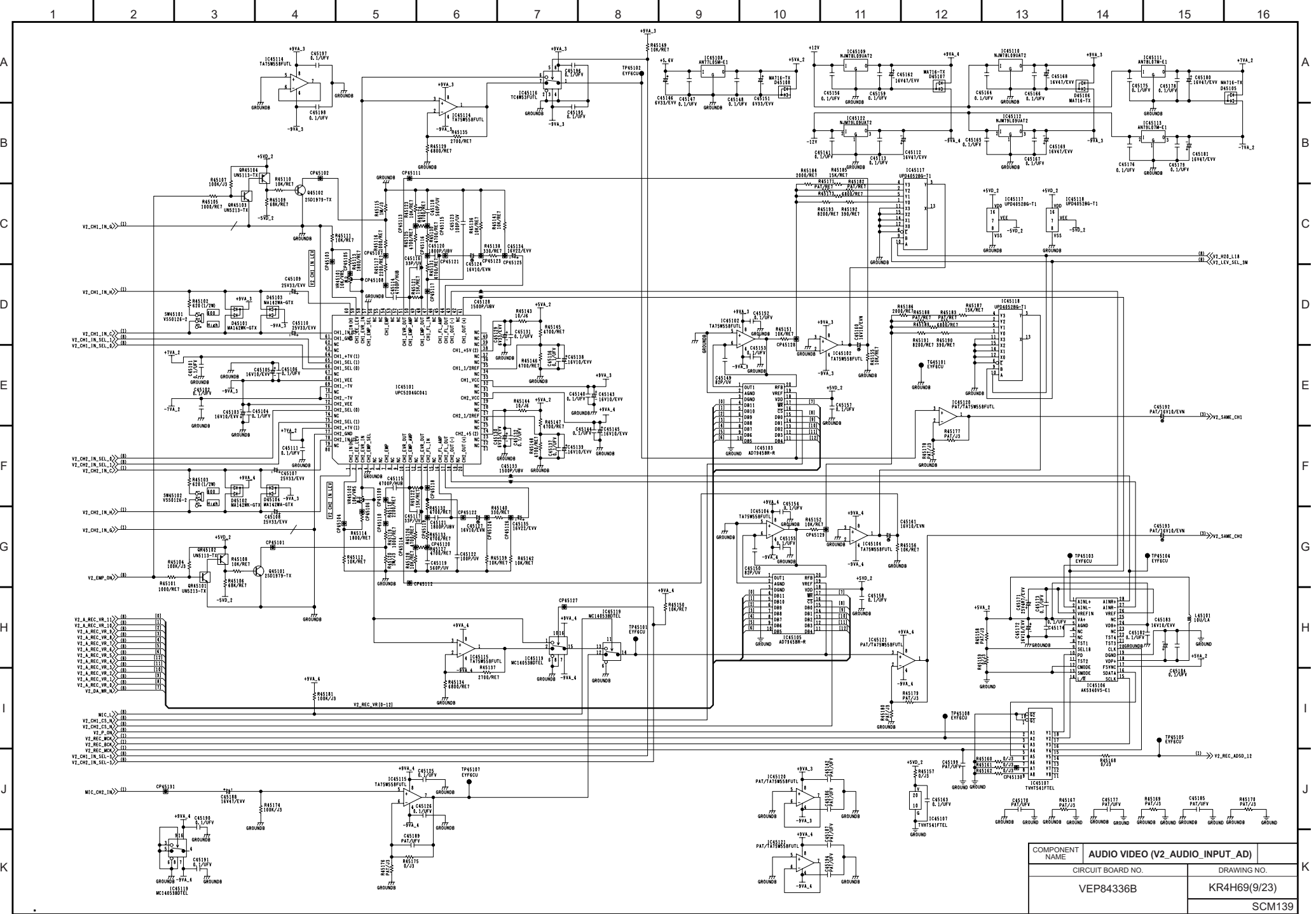






COMPONENT NAME		AUDIO VIDEO (AUDIO_VTR2_CONT)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84336B		KR4H69(8/23)	
		SCM138	



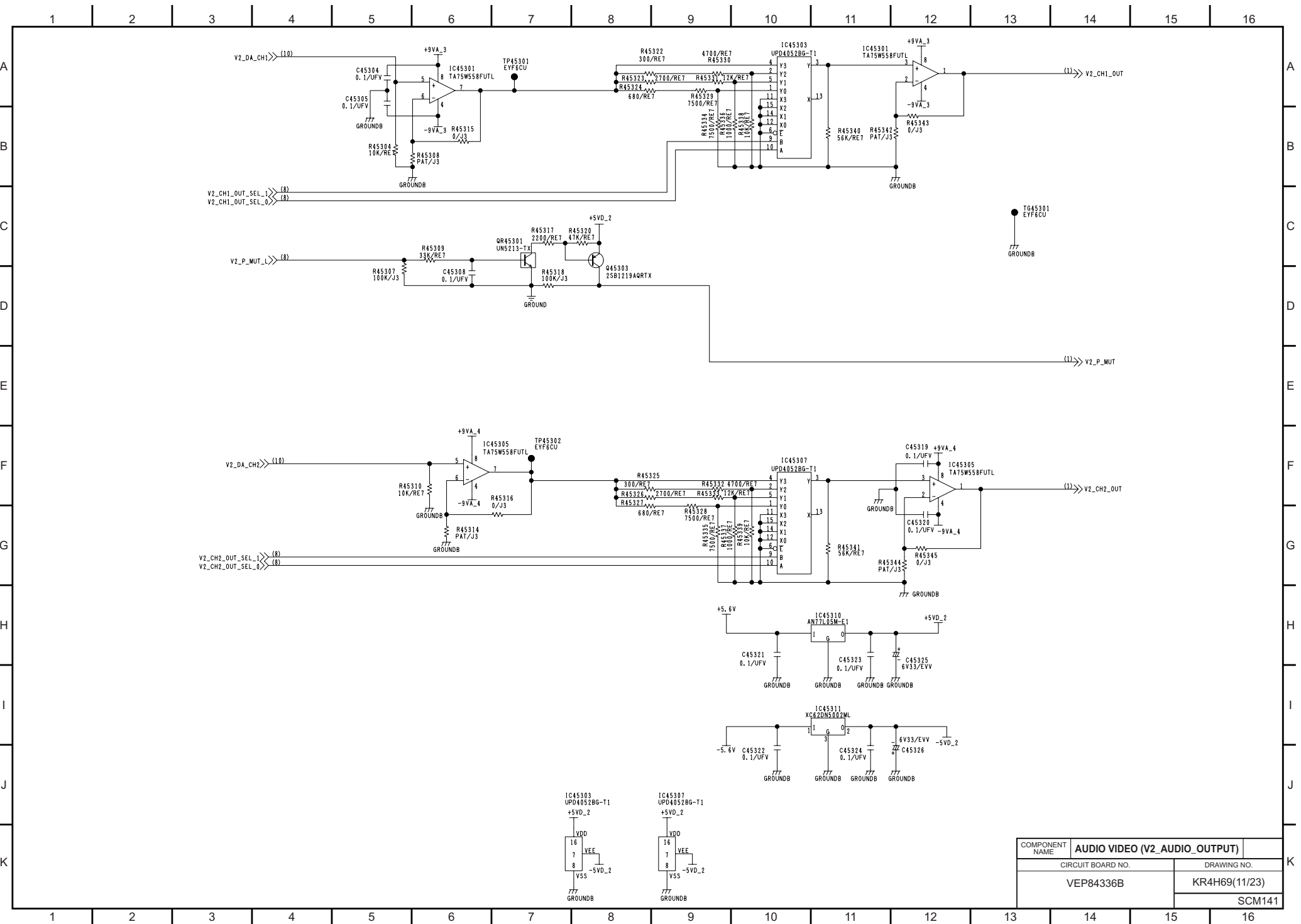


COMPONENT NAME		AUDIO VIDEO (V2_AUDIO_INPUT_AD)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84336B		KR4H69(9/23)	
		SCM139	



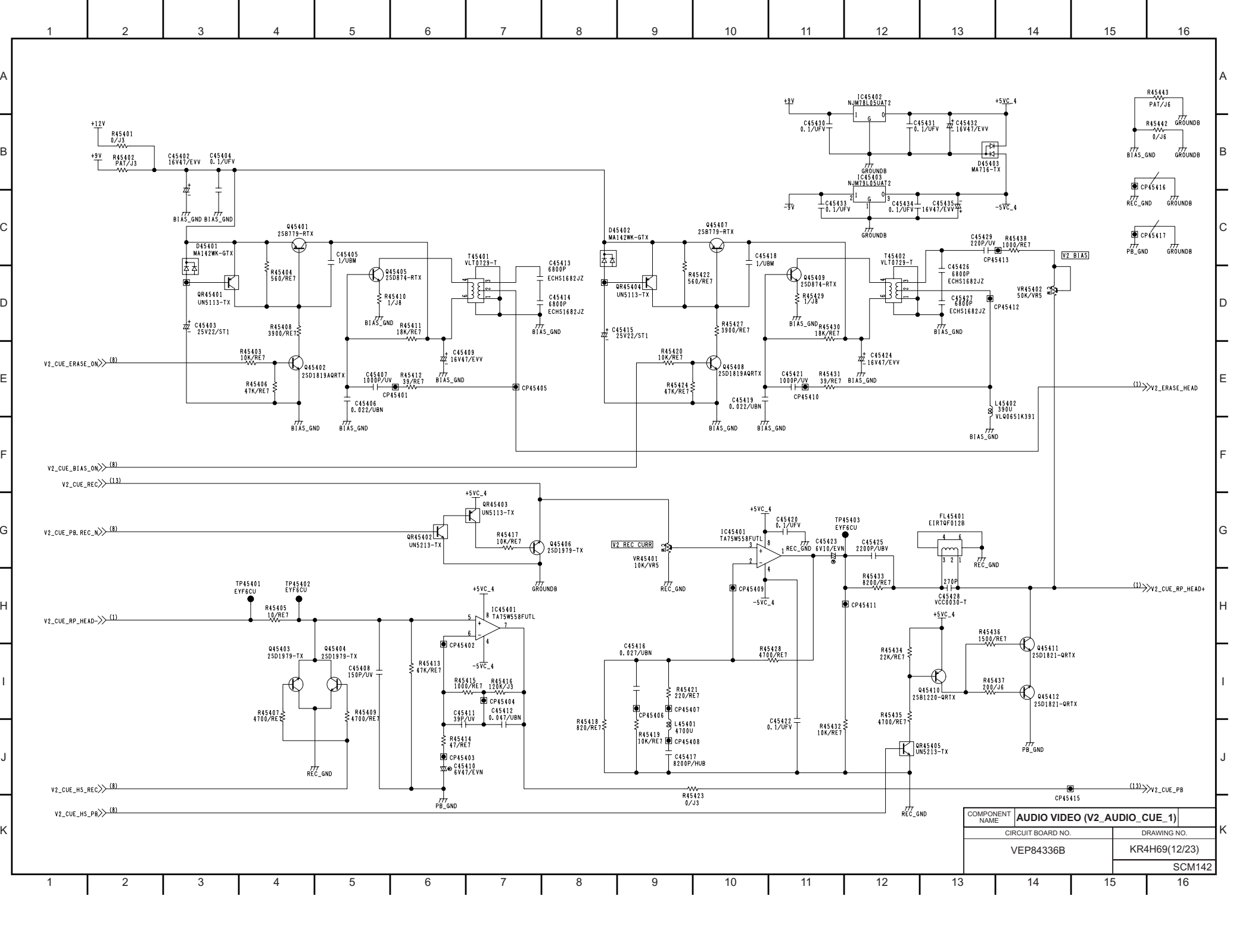






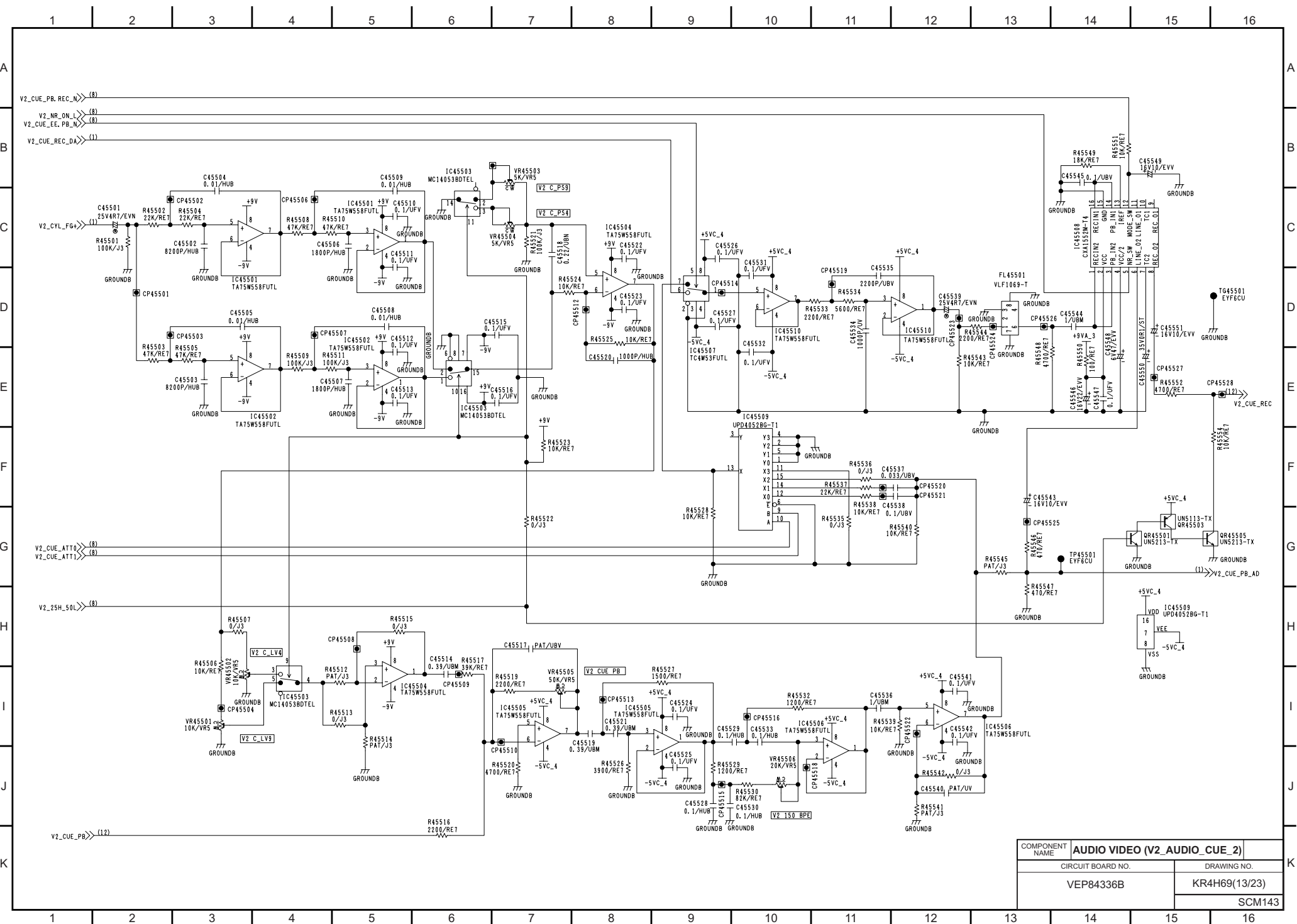
COMPONENT NAME		AUDIO VIDEO (V2_AUDIO_OUTPUT)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84336B		KR4H69(11/23)	
		SCM141	



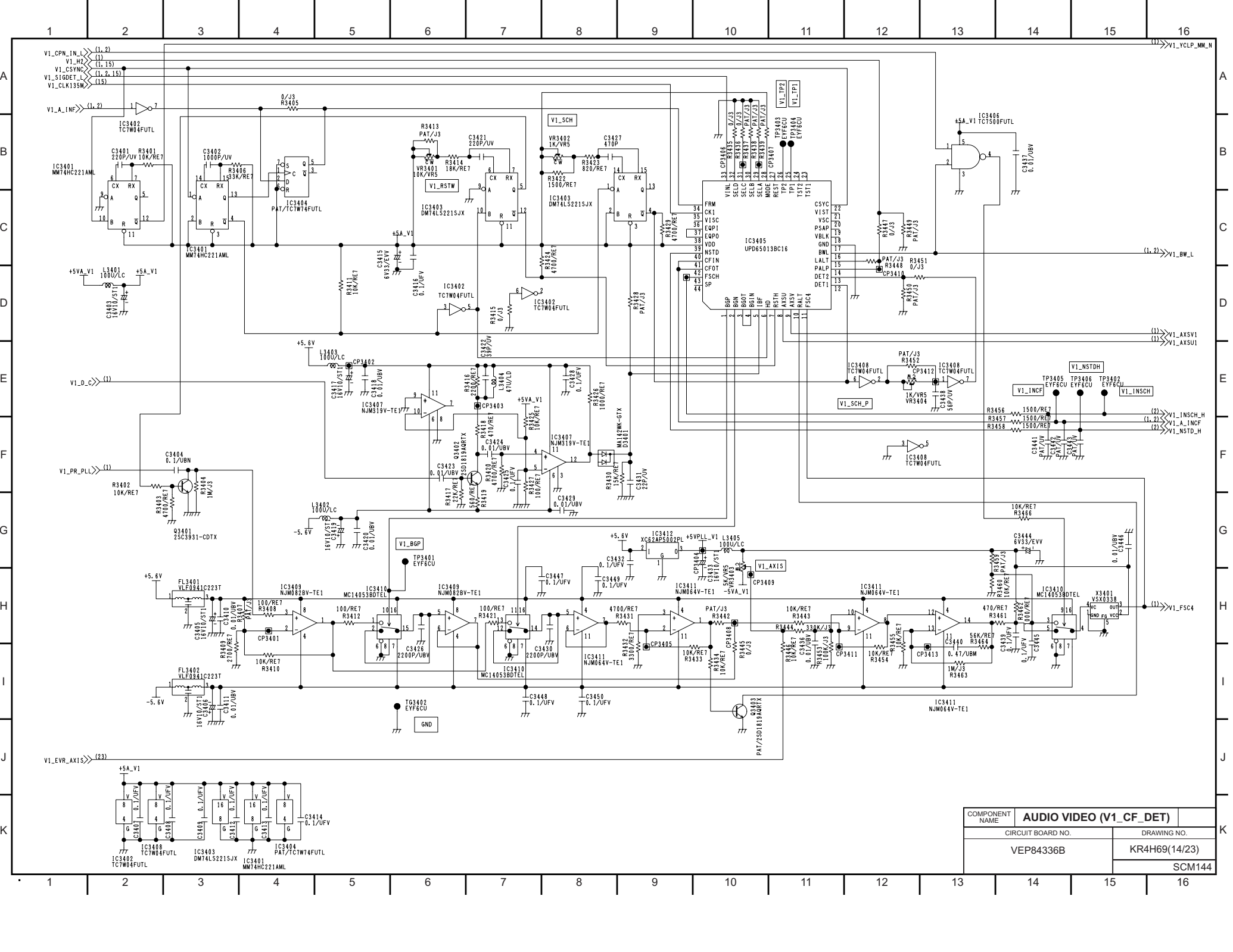


COMPONENT NAME	AUDIO VIDEO (V2_AUDIO_CUE_1)	
CIRCUIT BOARD NO.	VEP84336B	DRAWING NO.
		KR4H69(12/23)
		SCM142



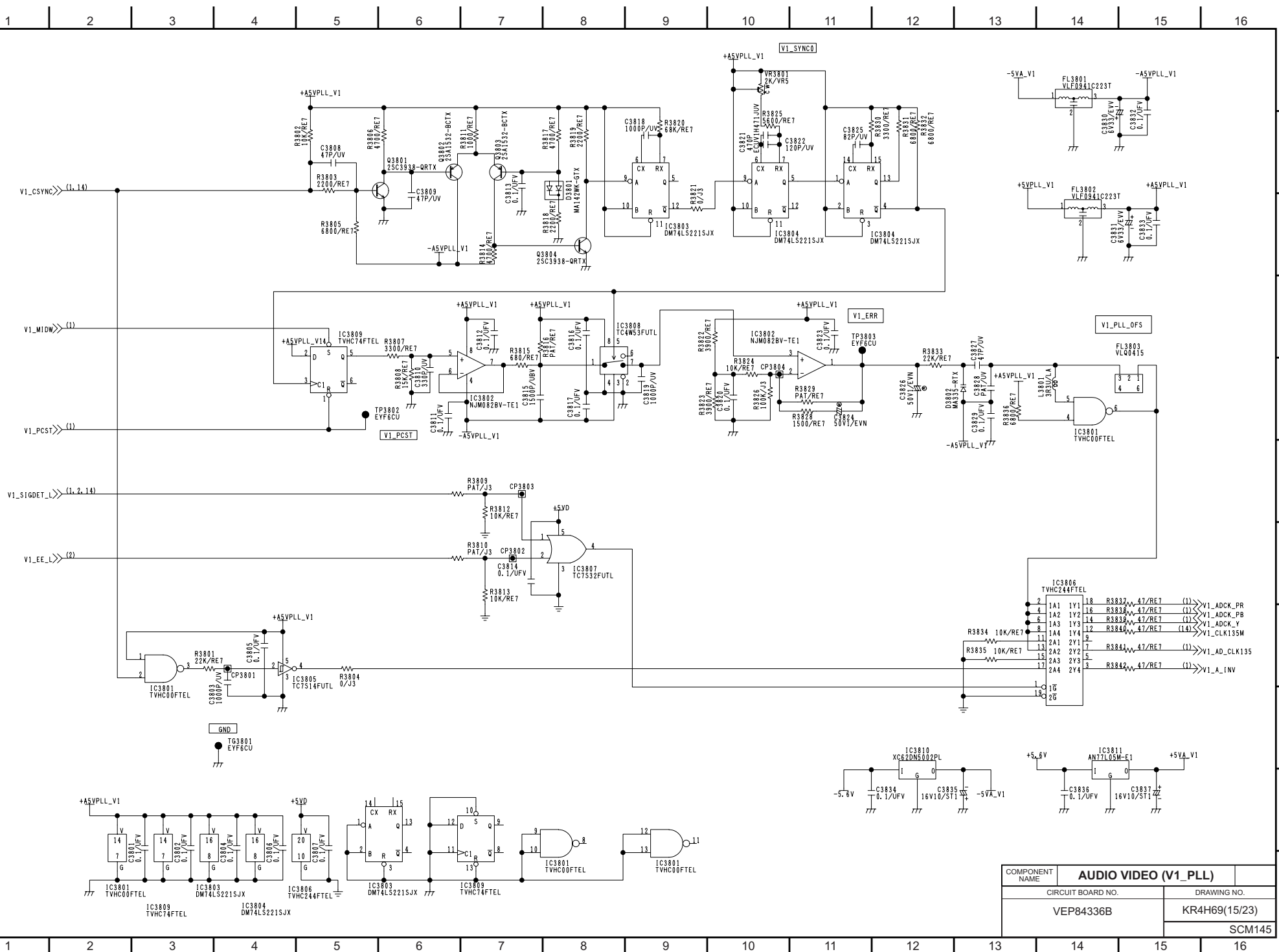




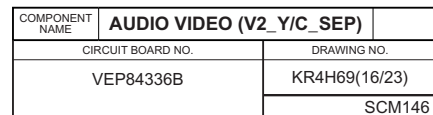


COMPONENT NAME	AUDIO VIDEO (V1_CF_DET)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84336B		KR4H69(14/23)
SCM144		

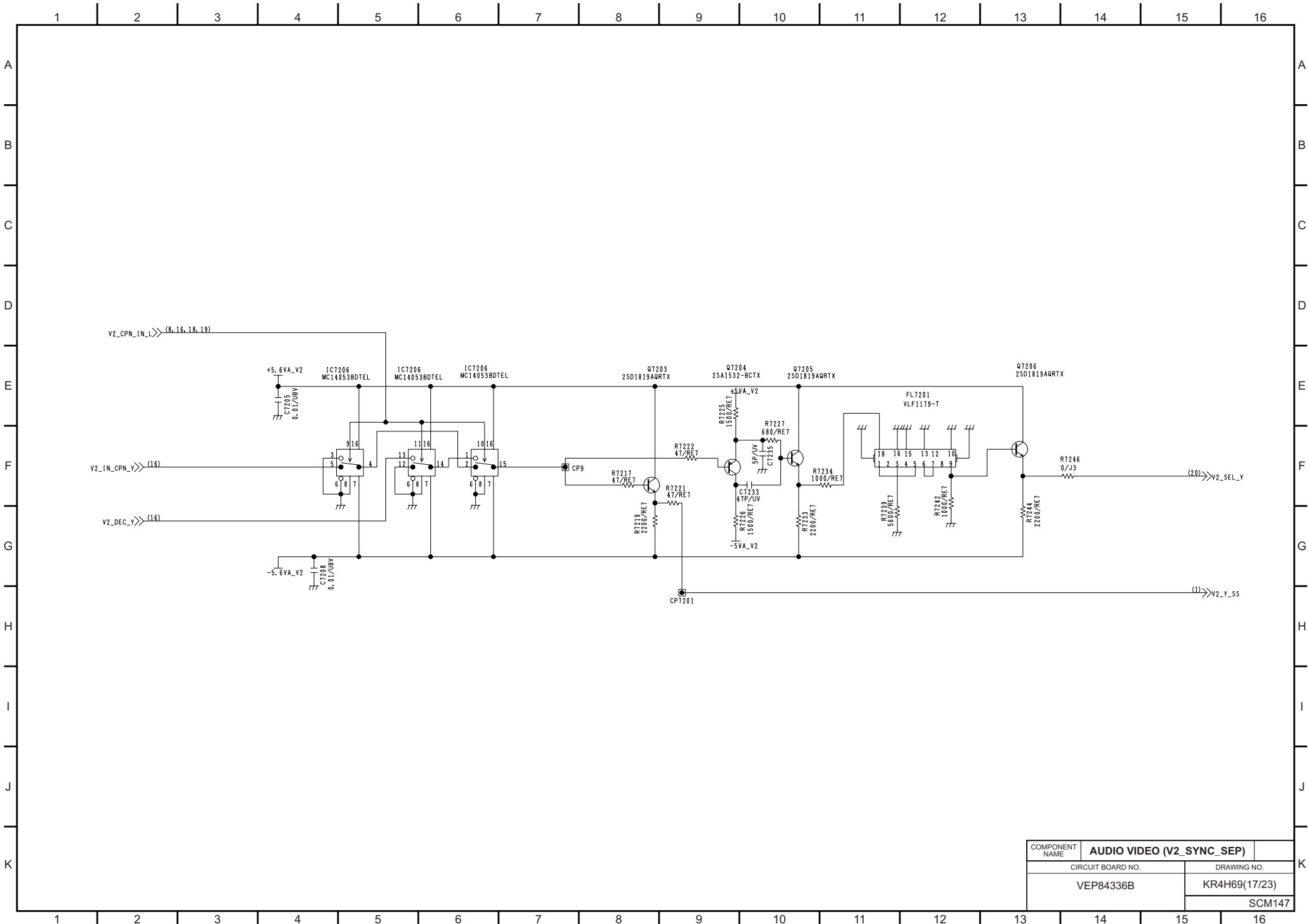






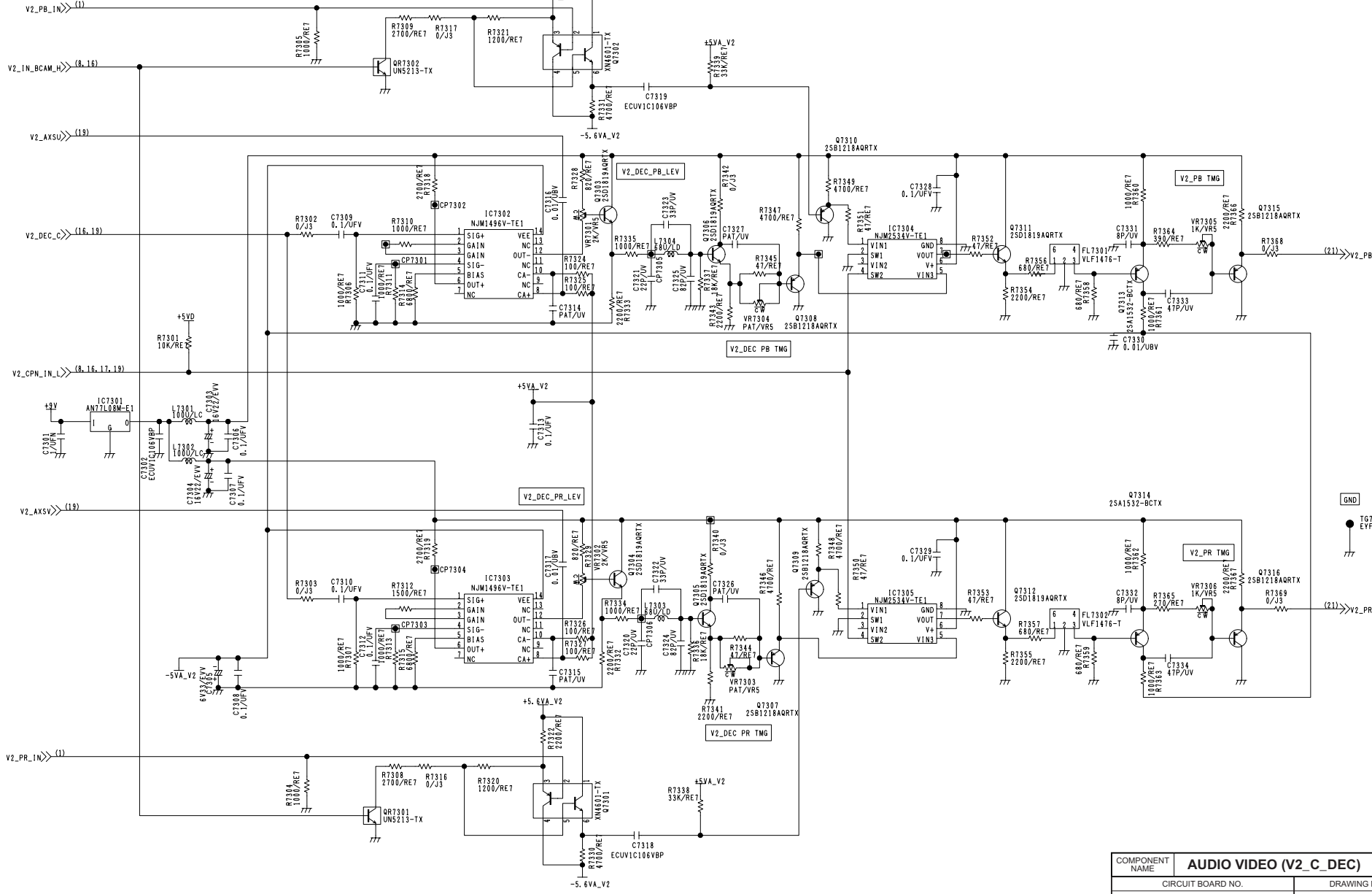






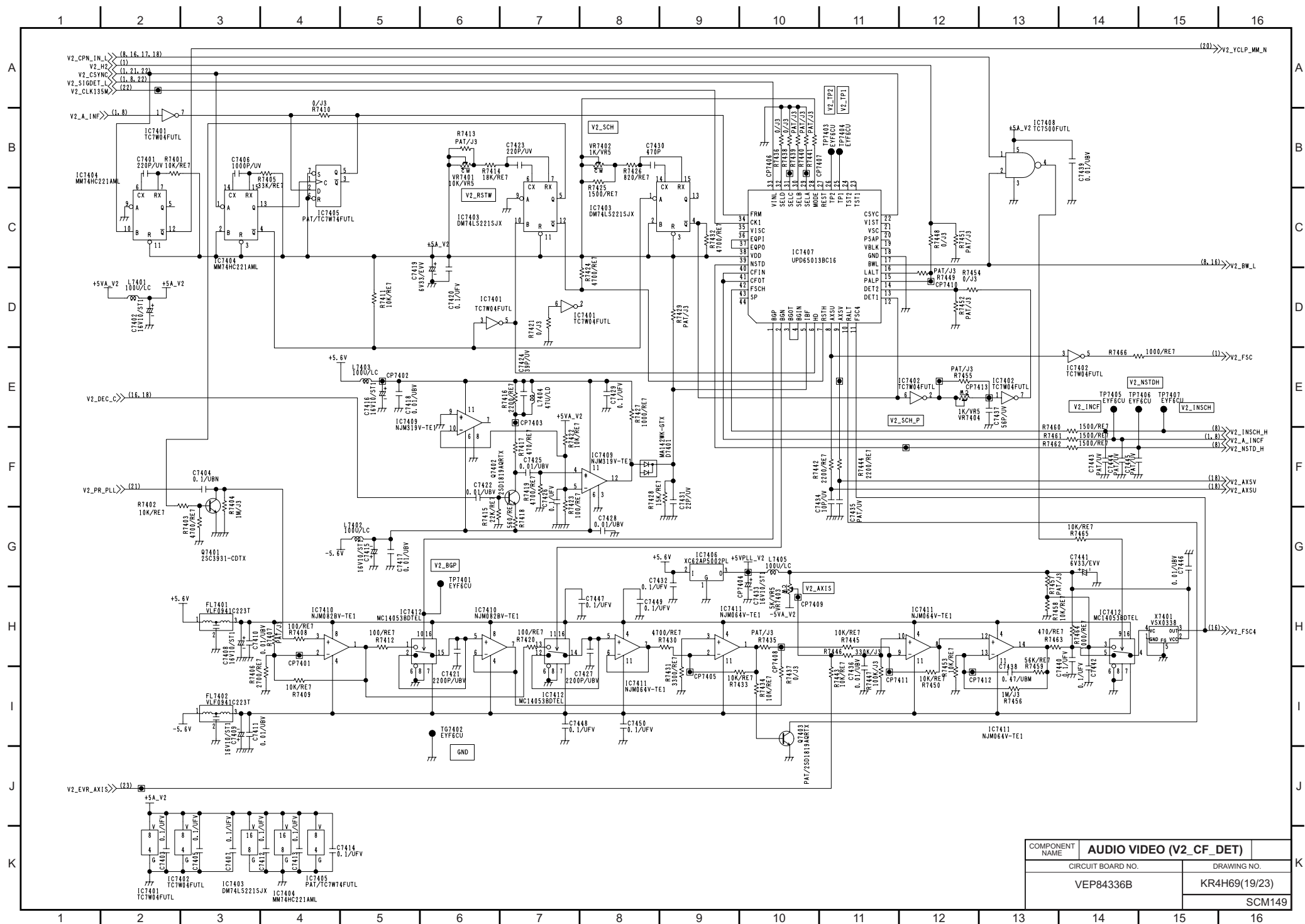
COMPONENT NAME	AUDIO VIDEO (V2_SYNC_SEP)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84336B		KR4H69(17/23)
SCM147		



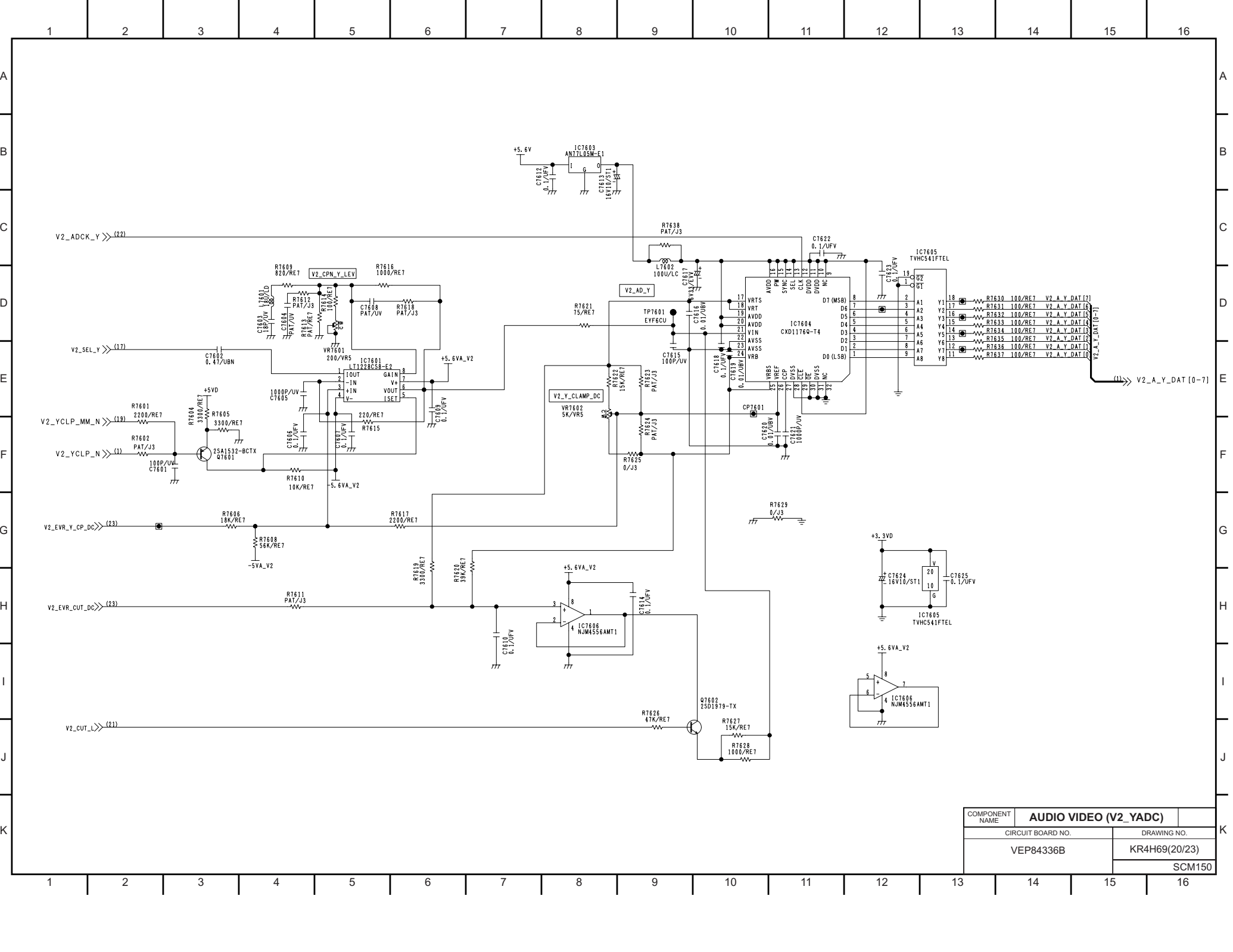


COMPONENT NAME	AUDIO VIDEO (V2_C_DEC)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP48336B		KR4H69(18/23)
SCM148		



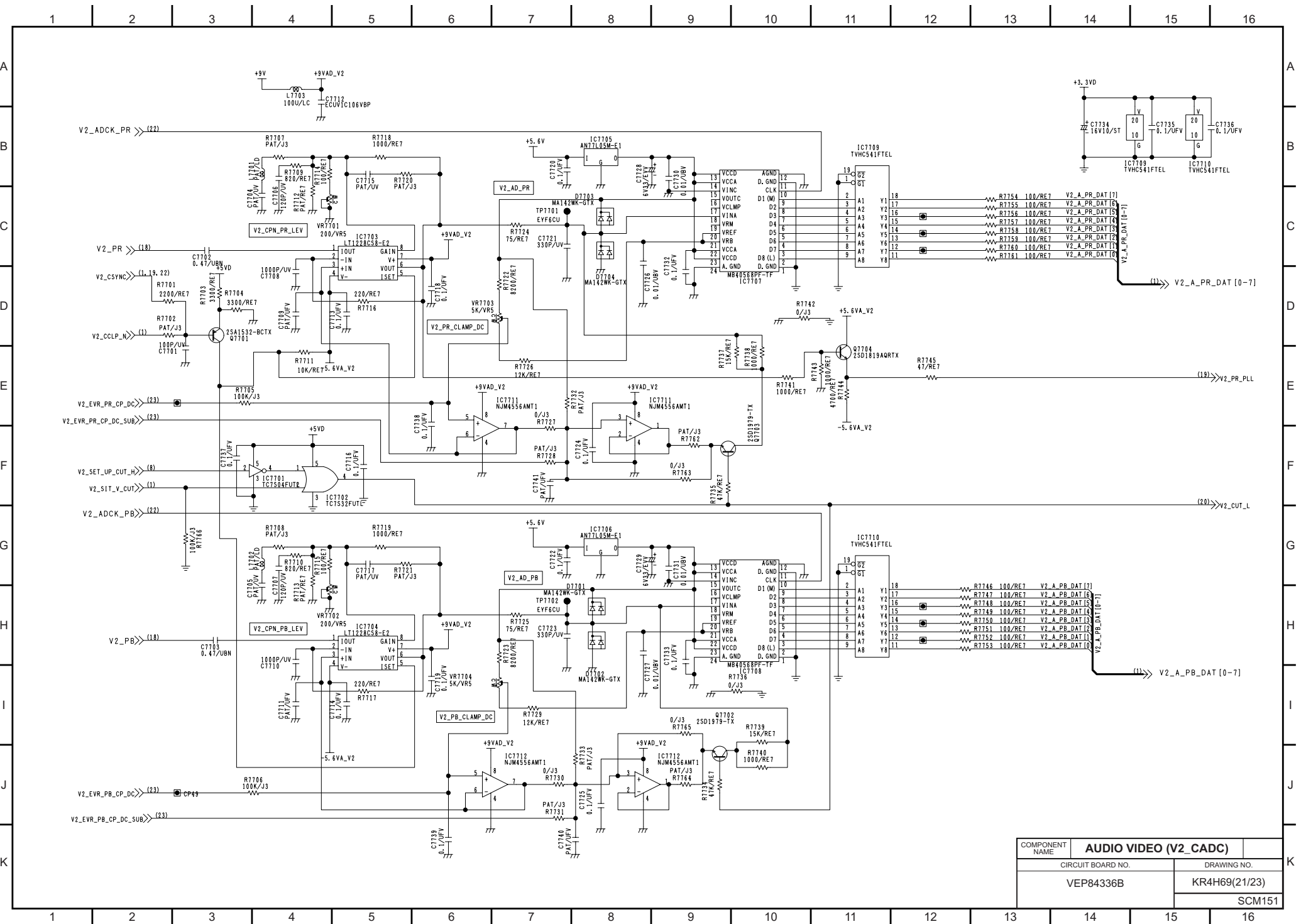






COMPONENT NAME		AUDIO VIDEO (V2_YADC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84336B		KR4H69(20/23)	
		SCM150	

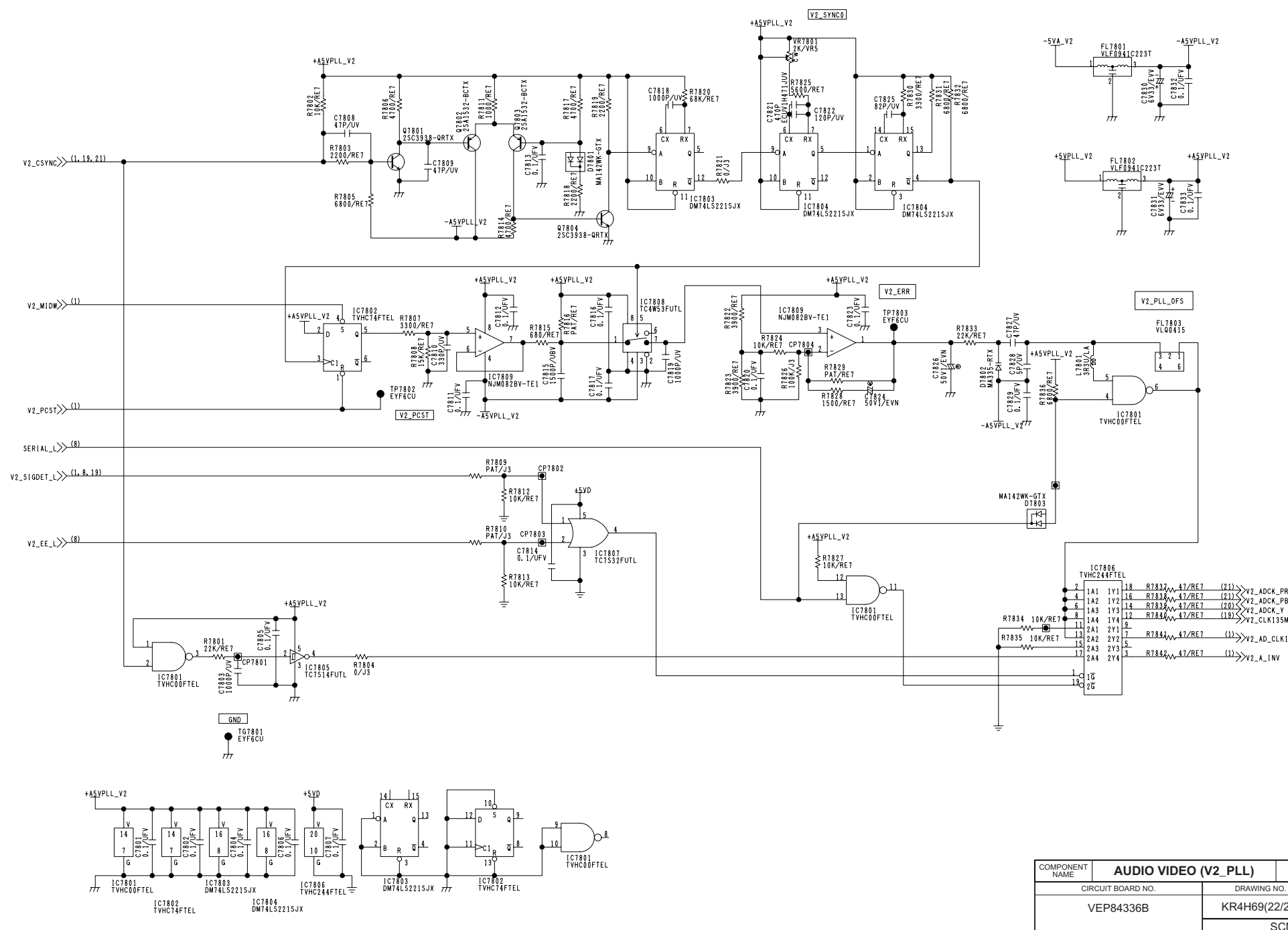




COMPONENT NAME		AUDIO VIDEO (V2_CADC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84336B		KR4H69(21/23)	
		SCM151	



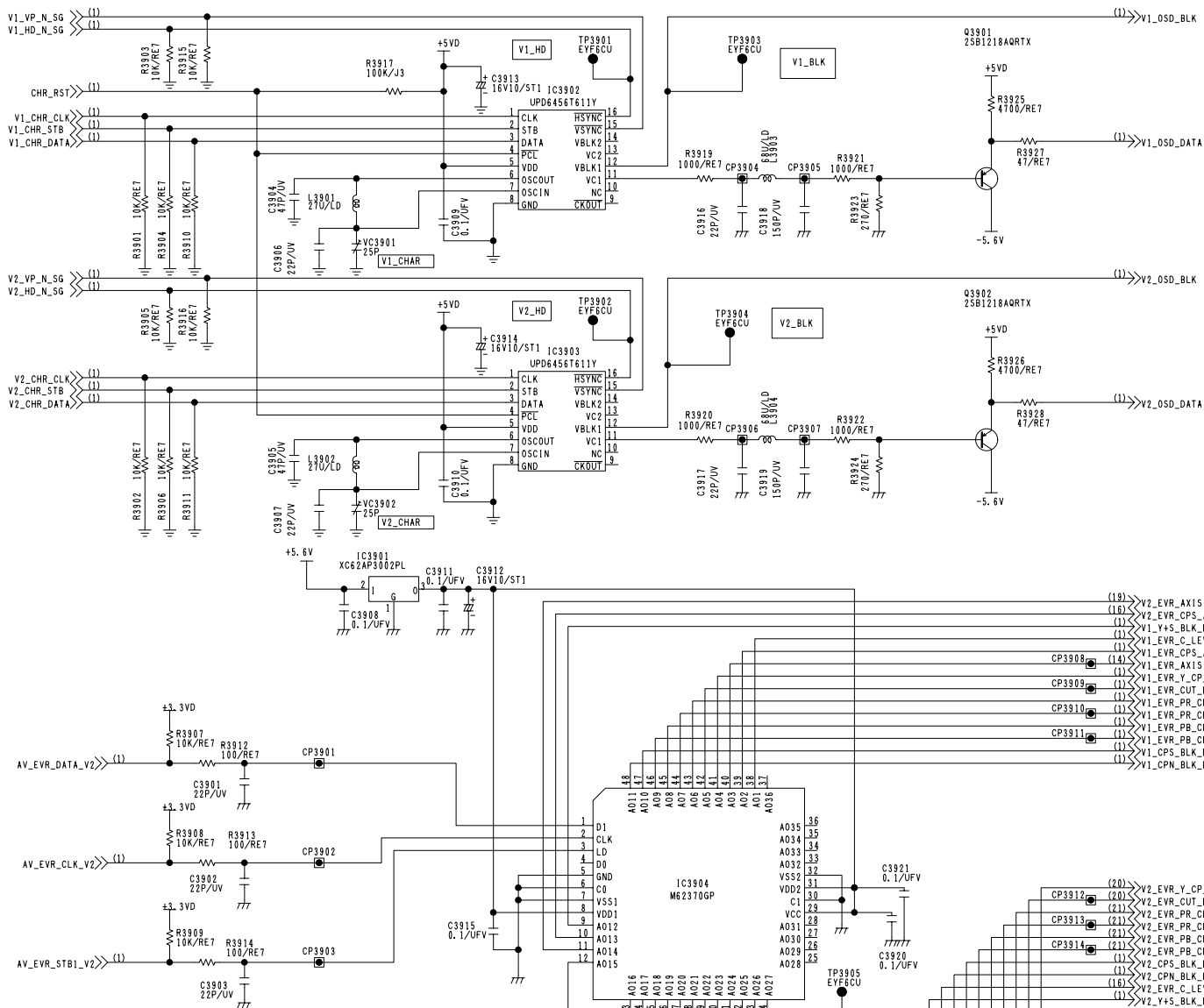
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



AUDIO VIDEO (V2_PLL)	
CIRCUIT BOARD NO.	DRAWING NO.
VEP84336B	KR4H69(22/23)
SCM152	

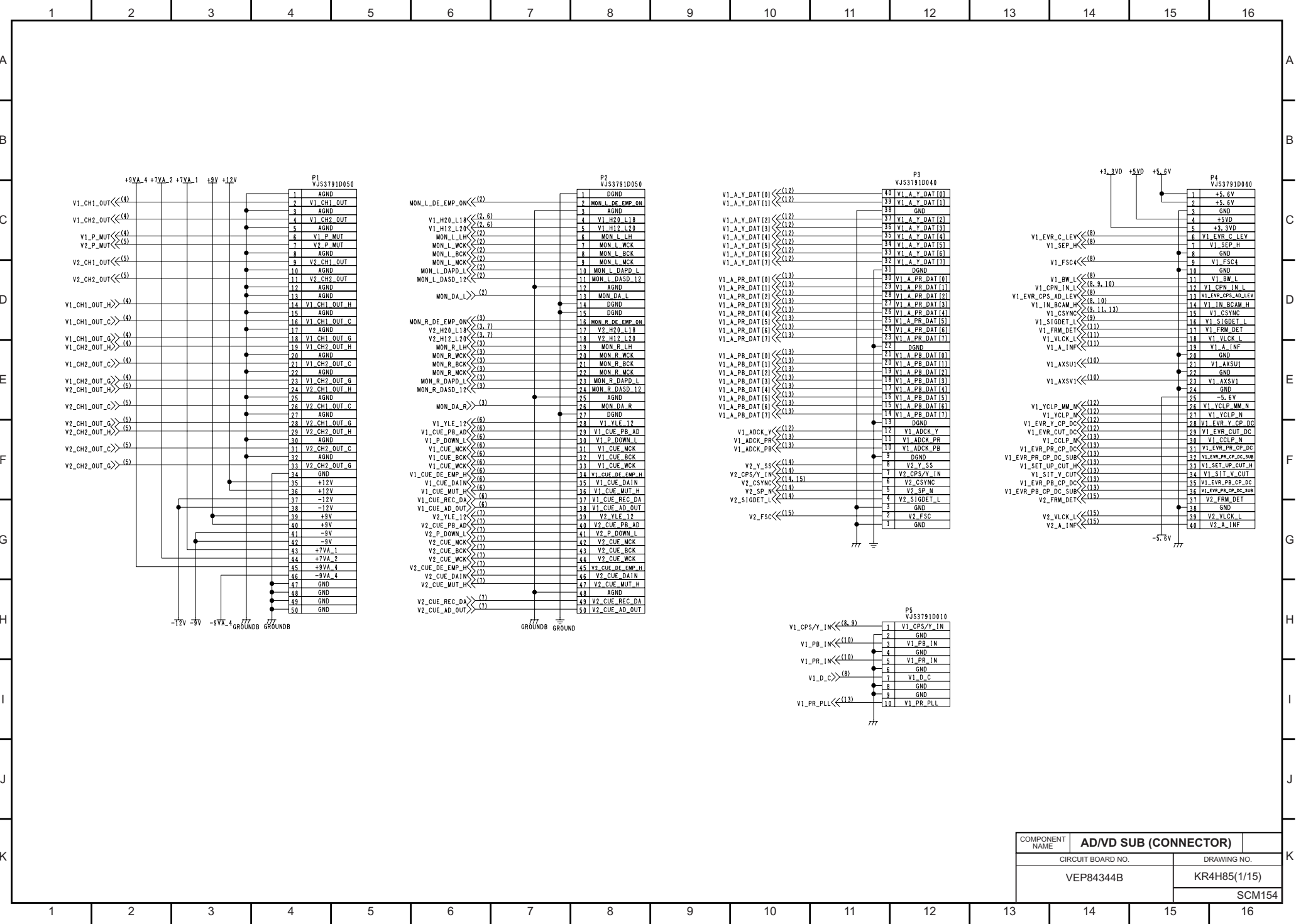
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16





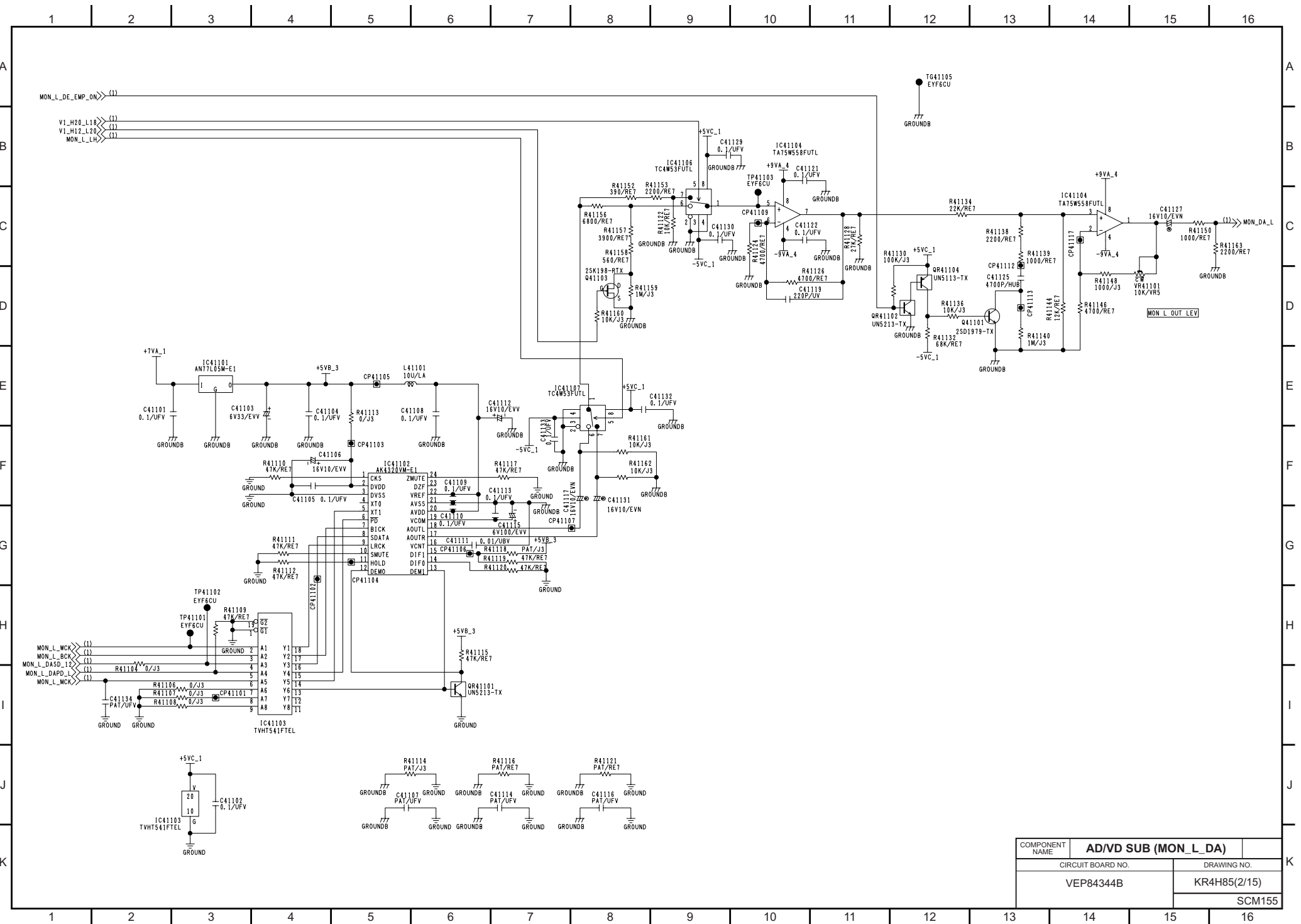
COMPONENT NAME		AUDIO VIDEO (EVR OSD)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84336B		KR4H69(23/23)	
		SCM153	





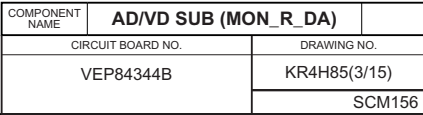
COMPONENT NAME		AD/VD SUB (CONNECTOR)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84344B		KR4H85(1/15)	
		SCM154	





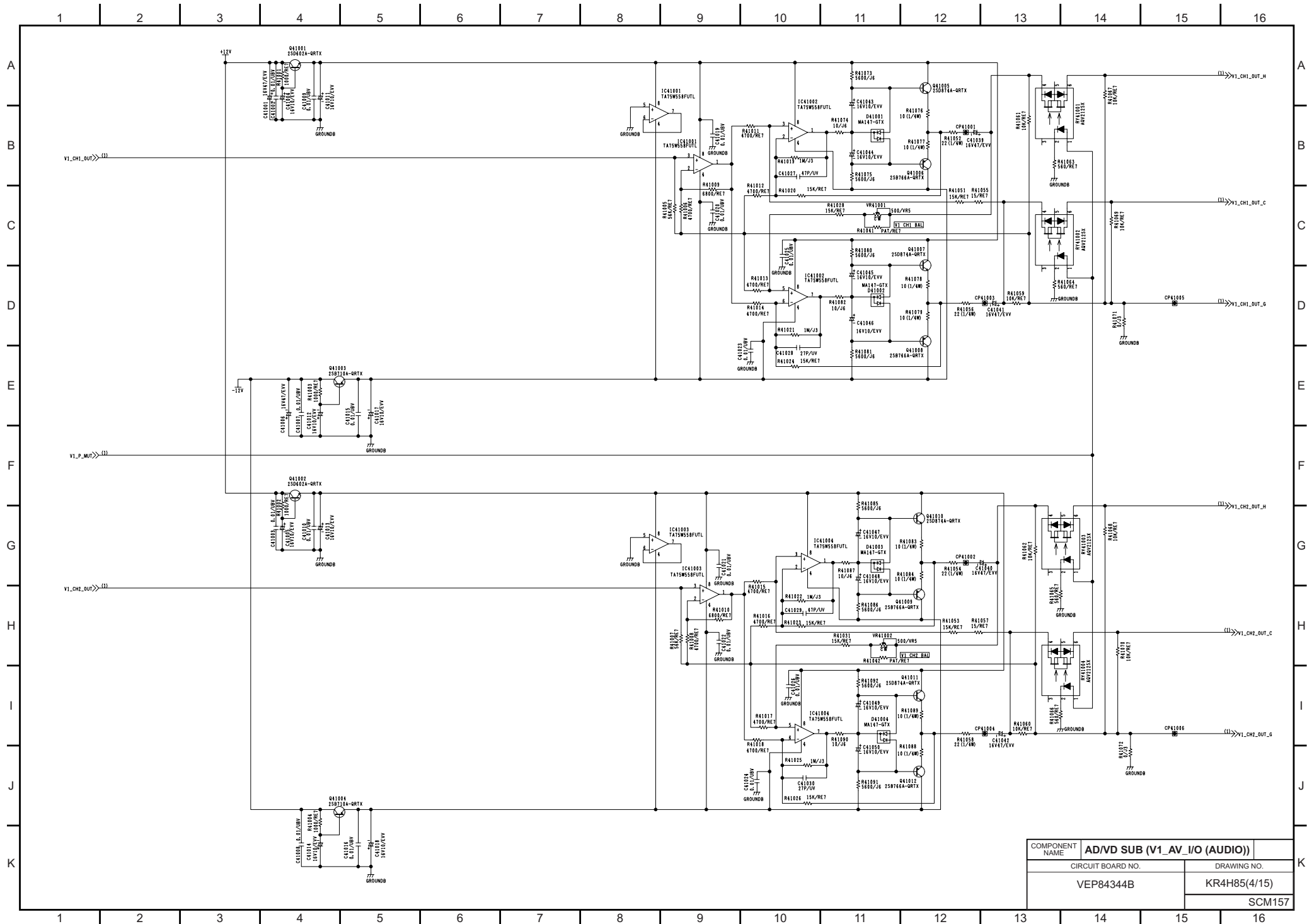
COMPONENT NAME		AD/VD SUB (MON_L_DA)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84344B		KR4H85(2/15)	
		SCM155	



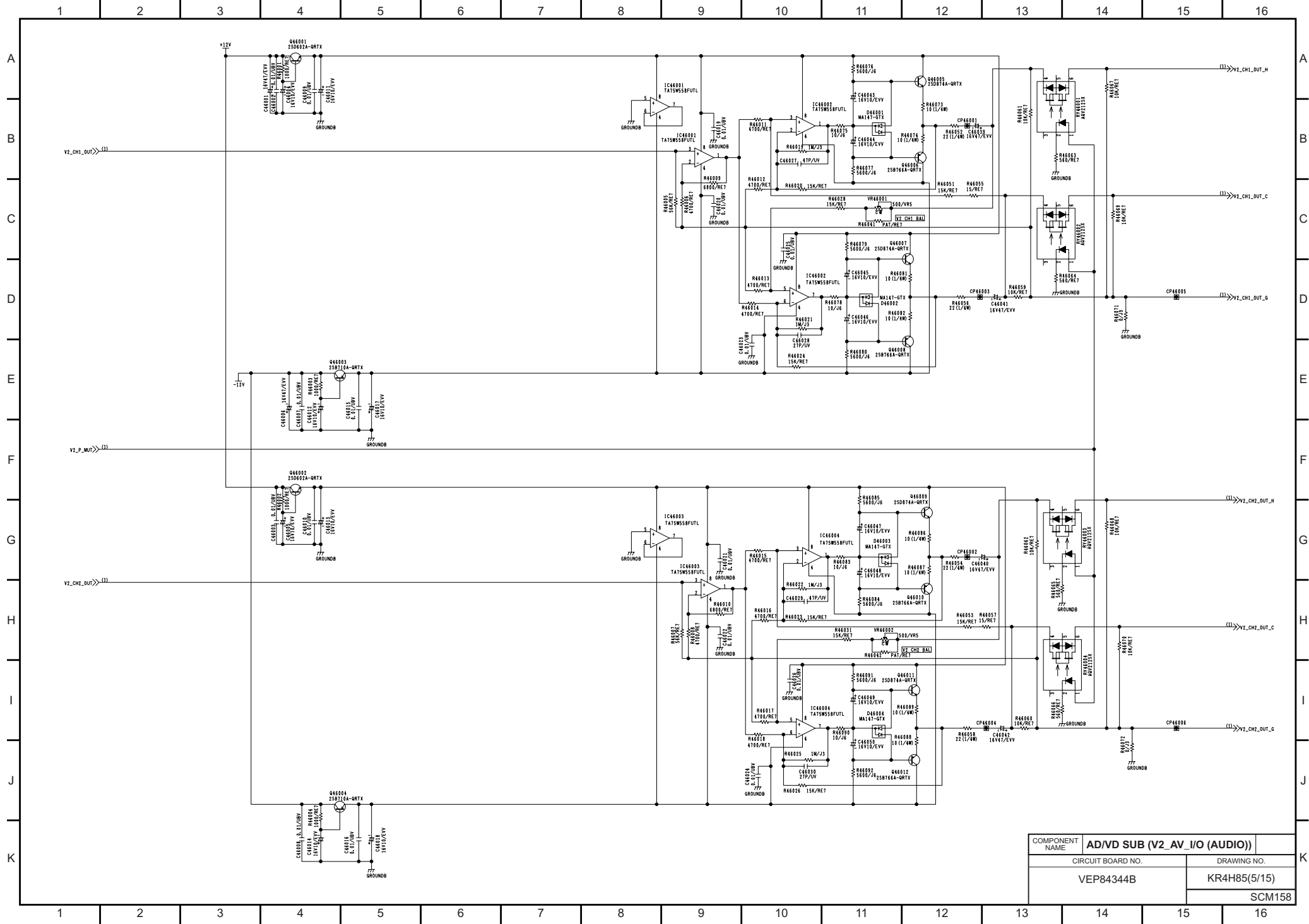


COMPONENT NAME	AD/VD SUB (MON_R_DA)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP84344B		KR4H85(3/15)	
		SCM156	

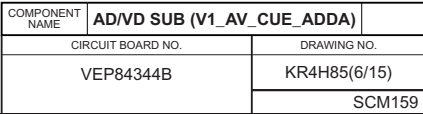




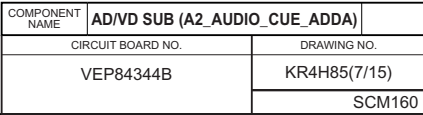








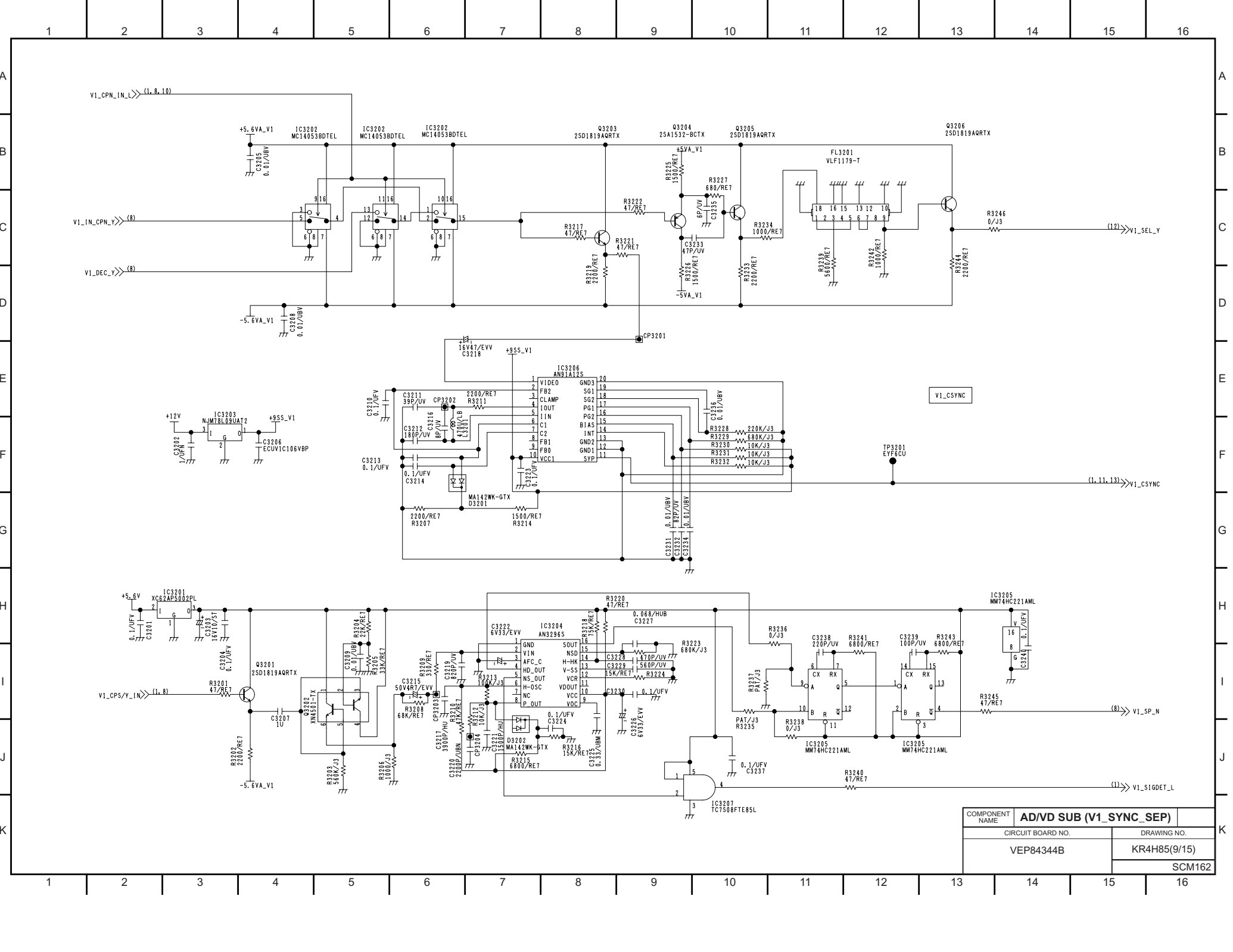






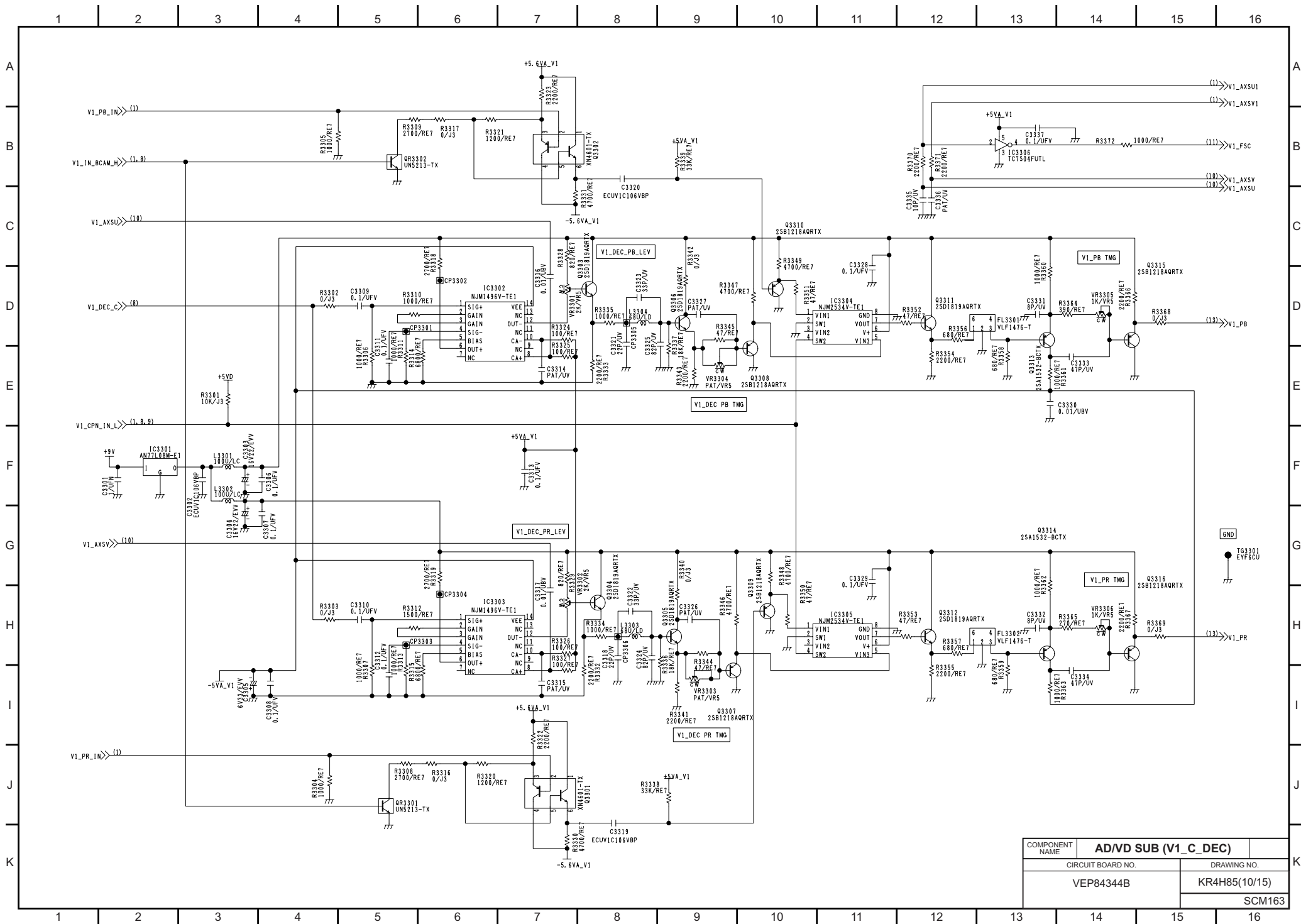




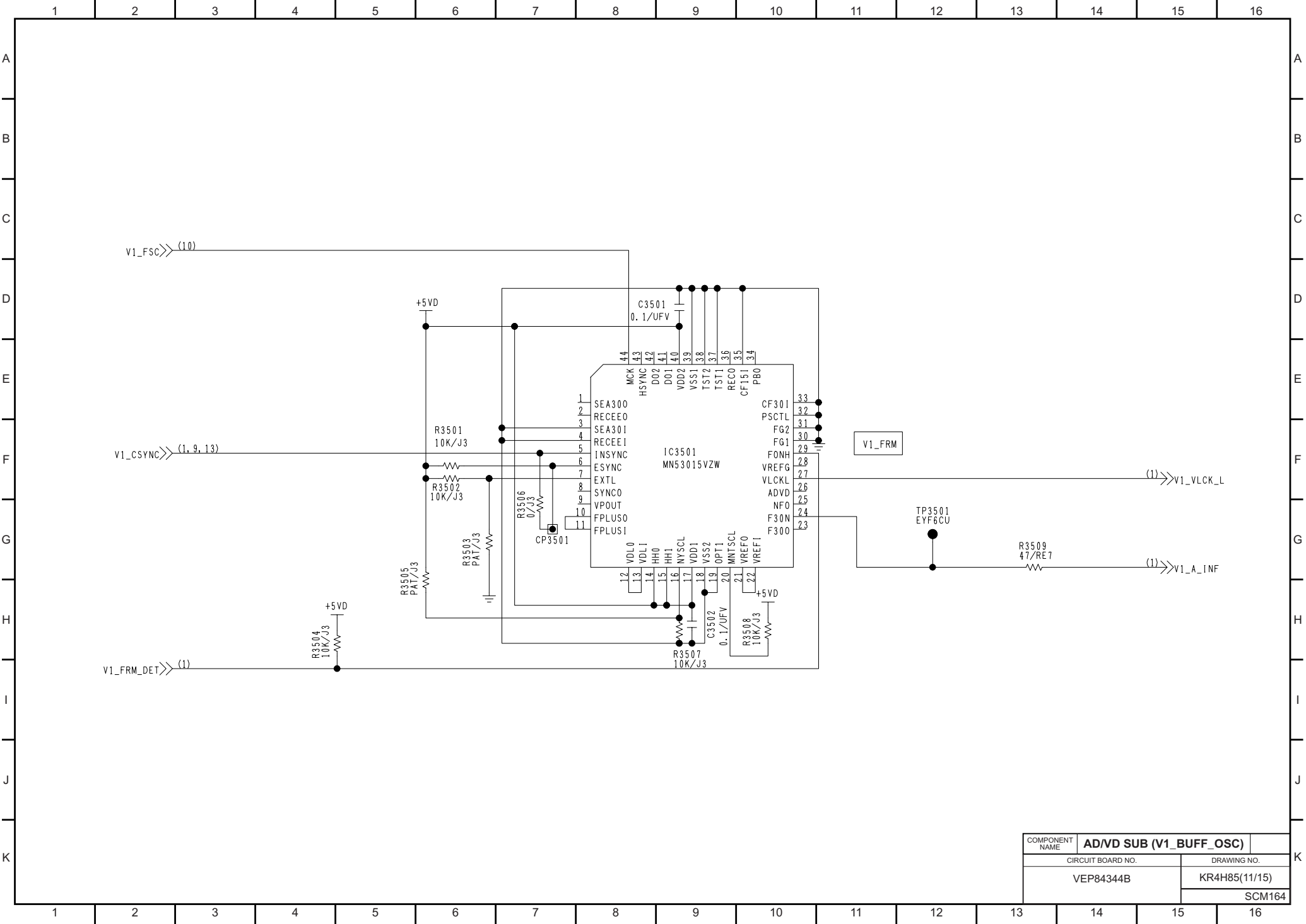


COMPONENT NAME	AD/VD SUB (V1_SYNC_SEP)	
CIRCUIT BOARD NO.	VEP84344B	DRAWING NO.
		KR4H85(9/15)
		SCM162

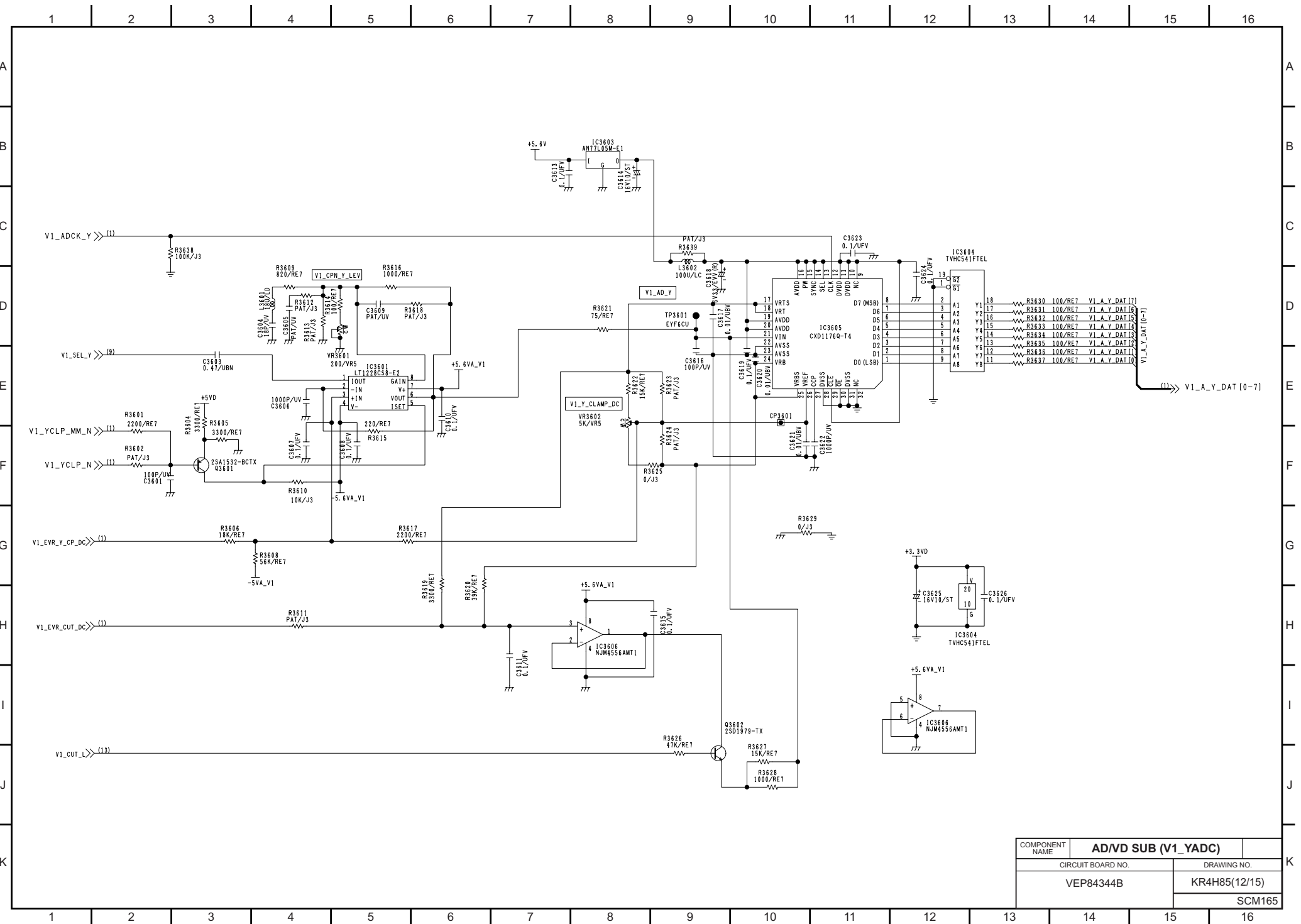








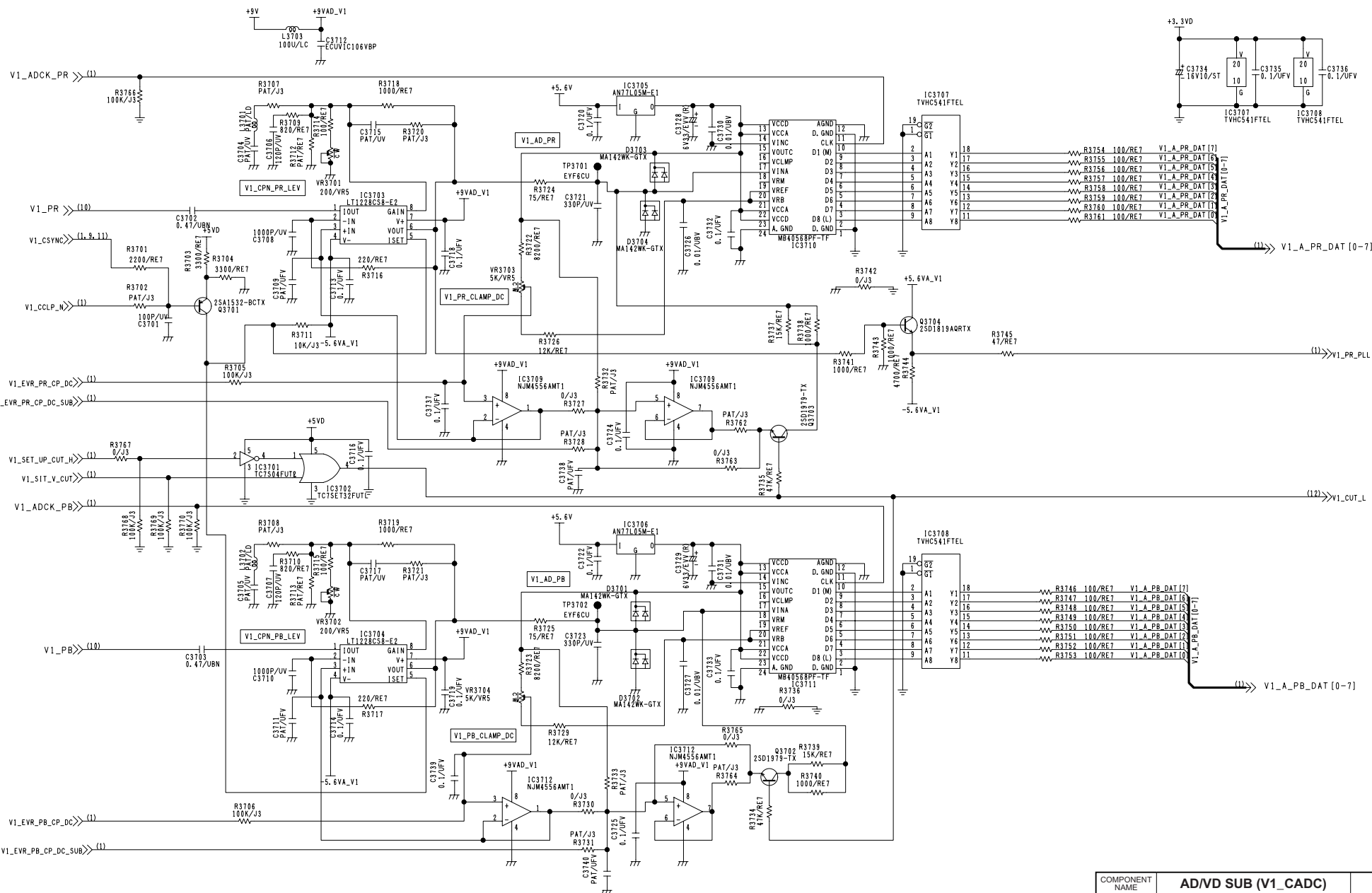




COMPONENT NAME			AD/VD SUB (V1_YADC)	
CIRCUIT BOARD NO.			DRAWING NO.	
VEP84344B			KR4H85(12/15)	
			SCM165	



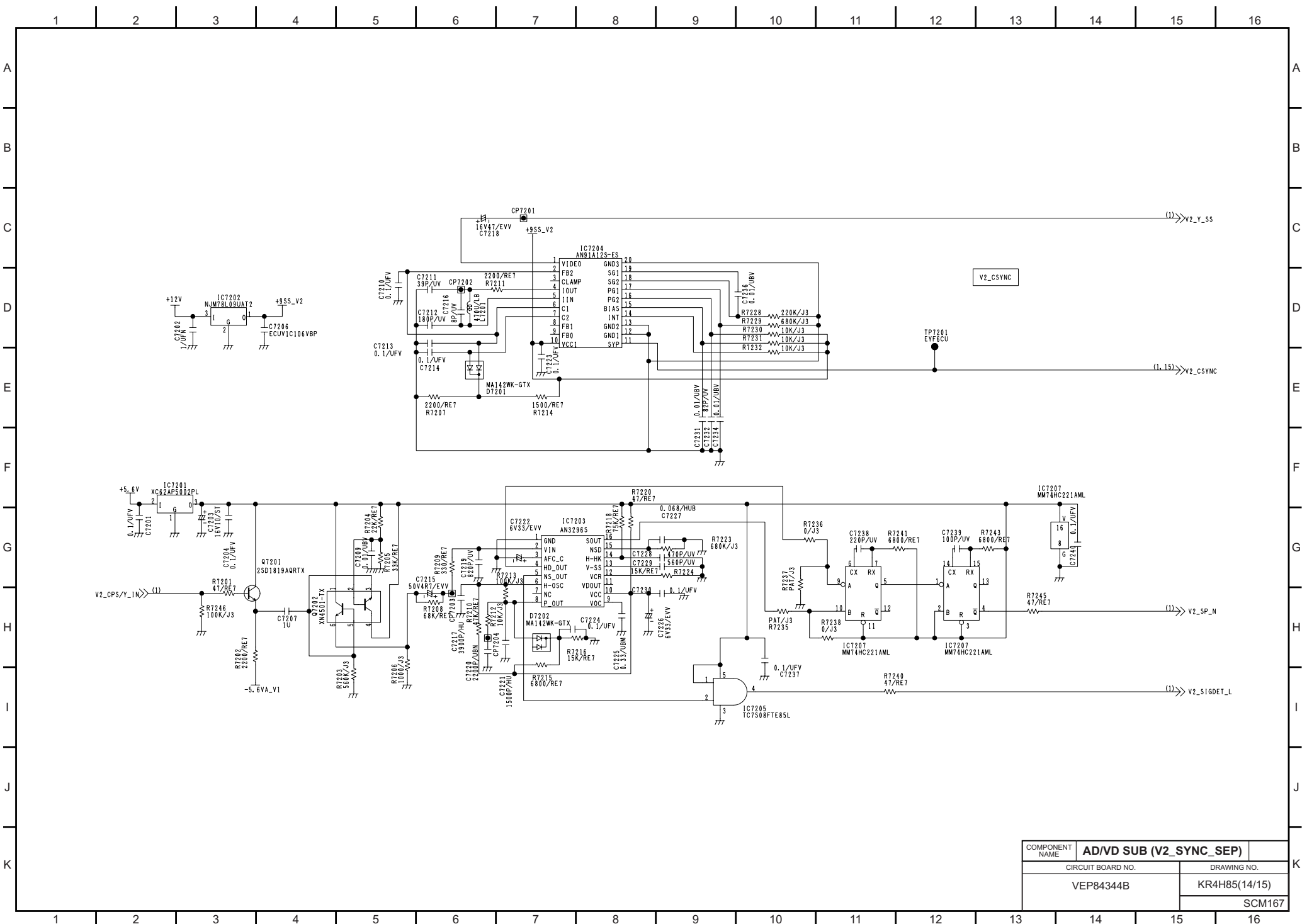
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



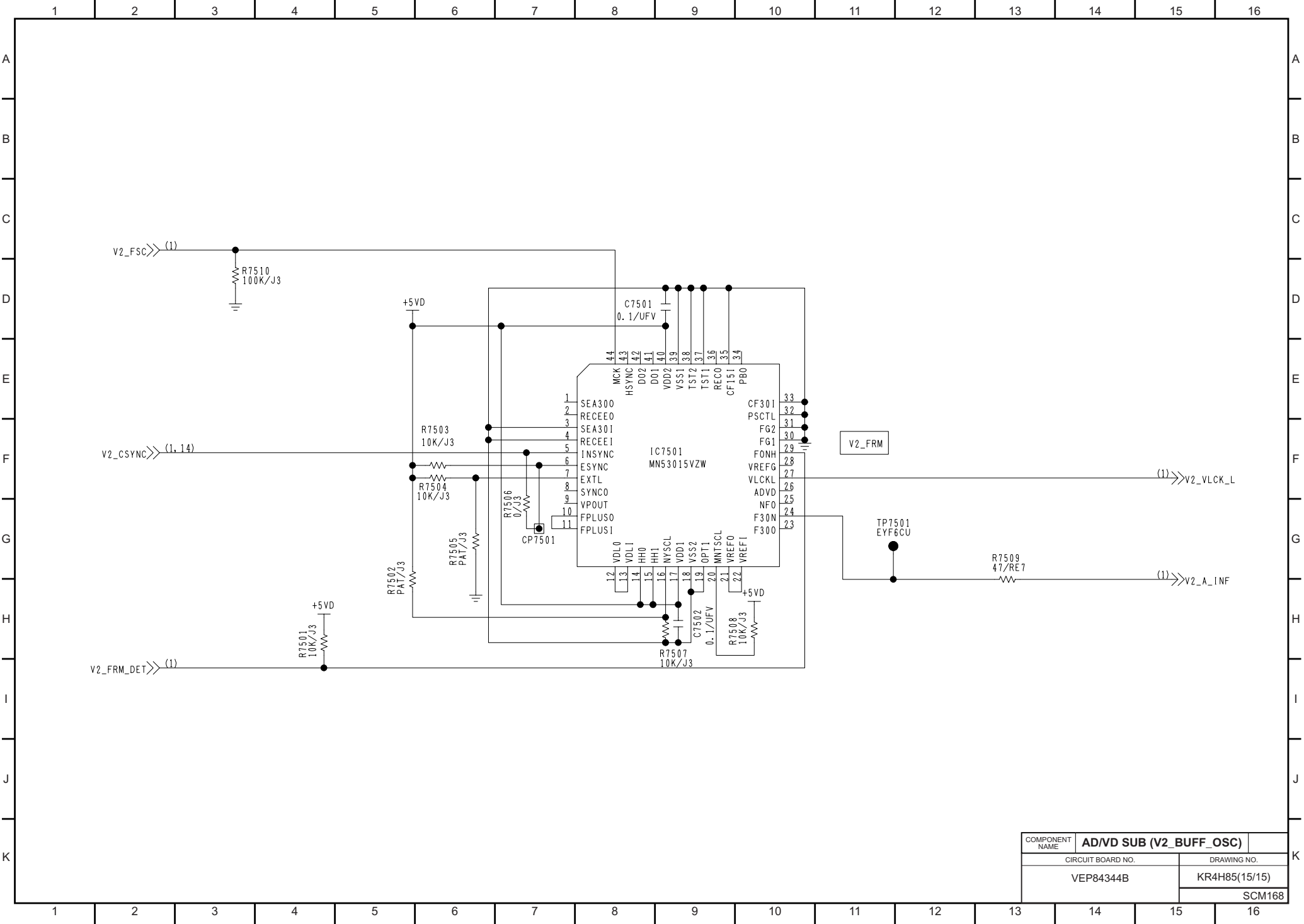
COMPONENT NAME	AD/VD SUB (V1_CADC)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84344B		KR4H85(13/15)
SCM166		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



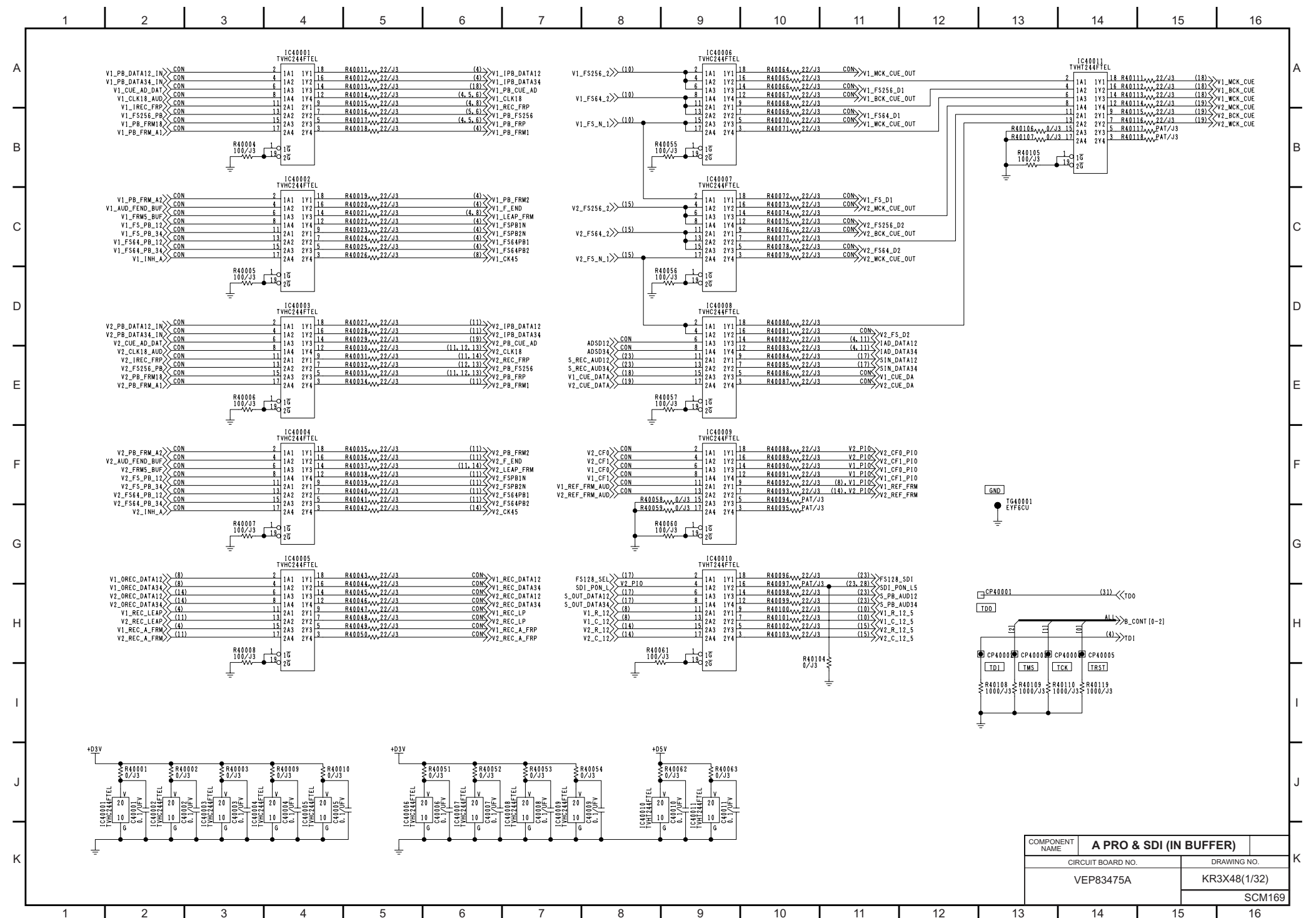




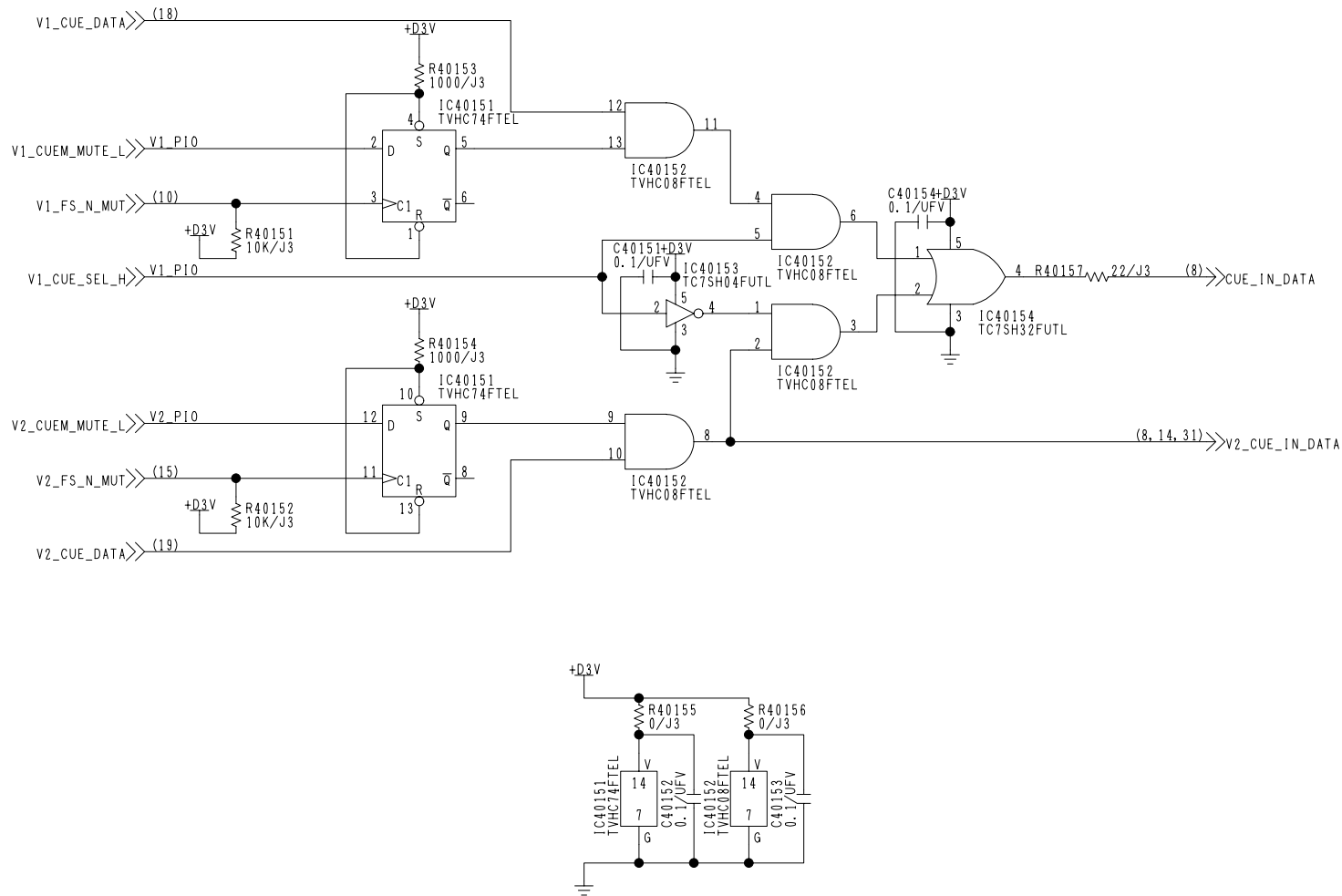


COMPONENT NAME	AD/VD SUB (V2_BUFF_OSC)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP84344B		KR4H85(15/15)
		SCM168





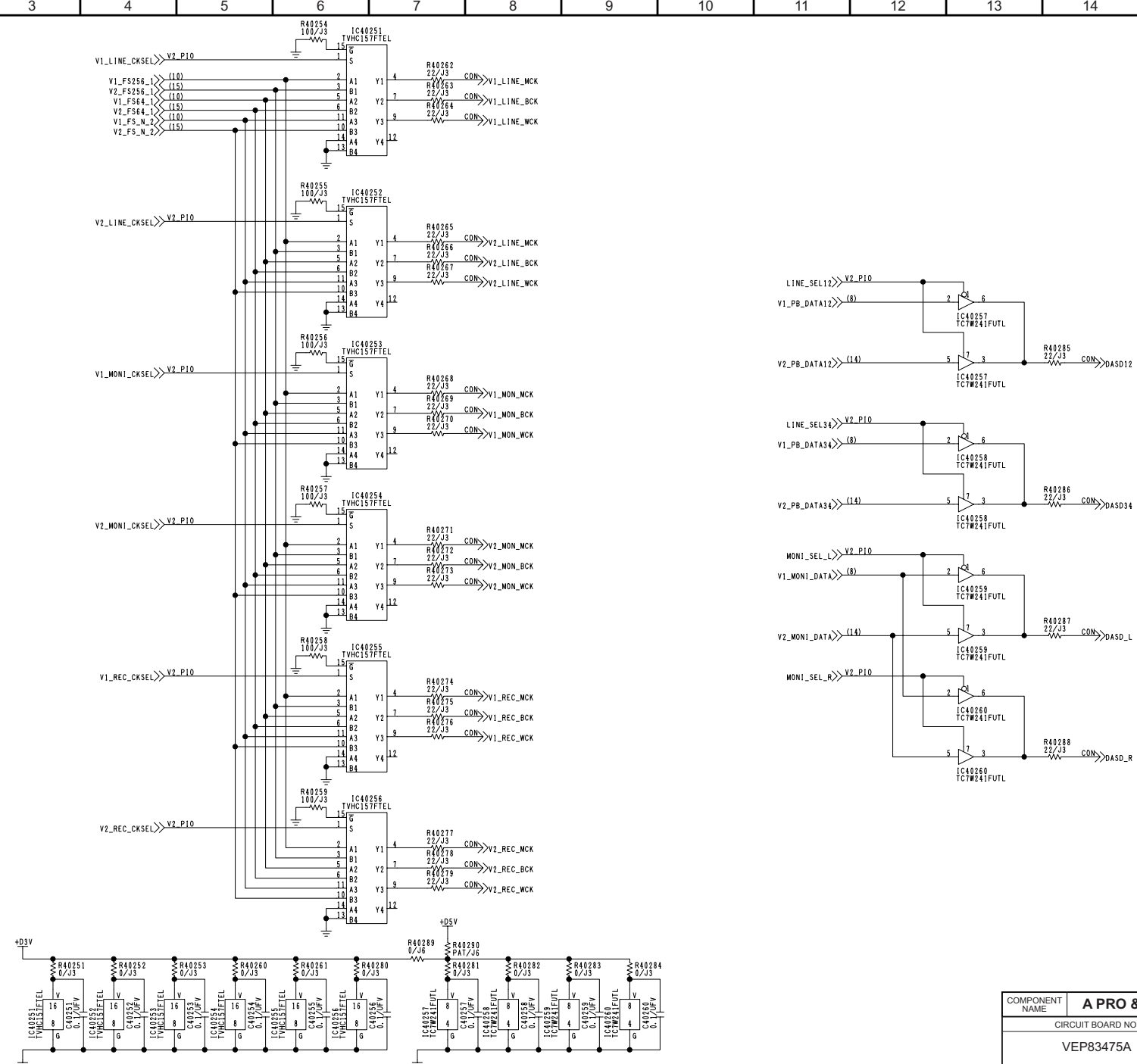




COMPONENT NAME	A PRO & SDI (CUE SEL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(2/32)
		SCM170



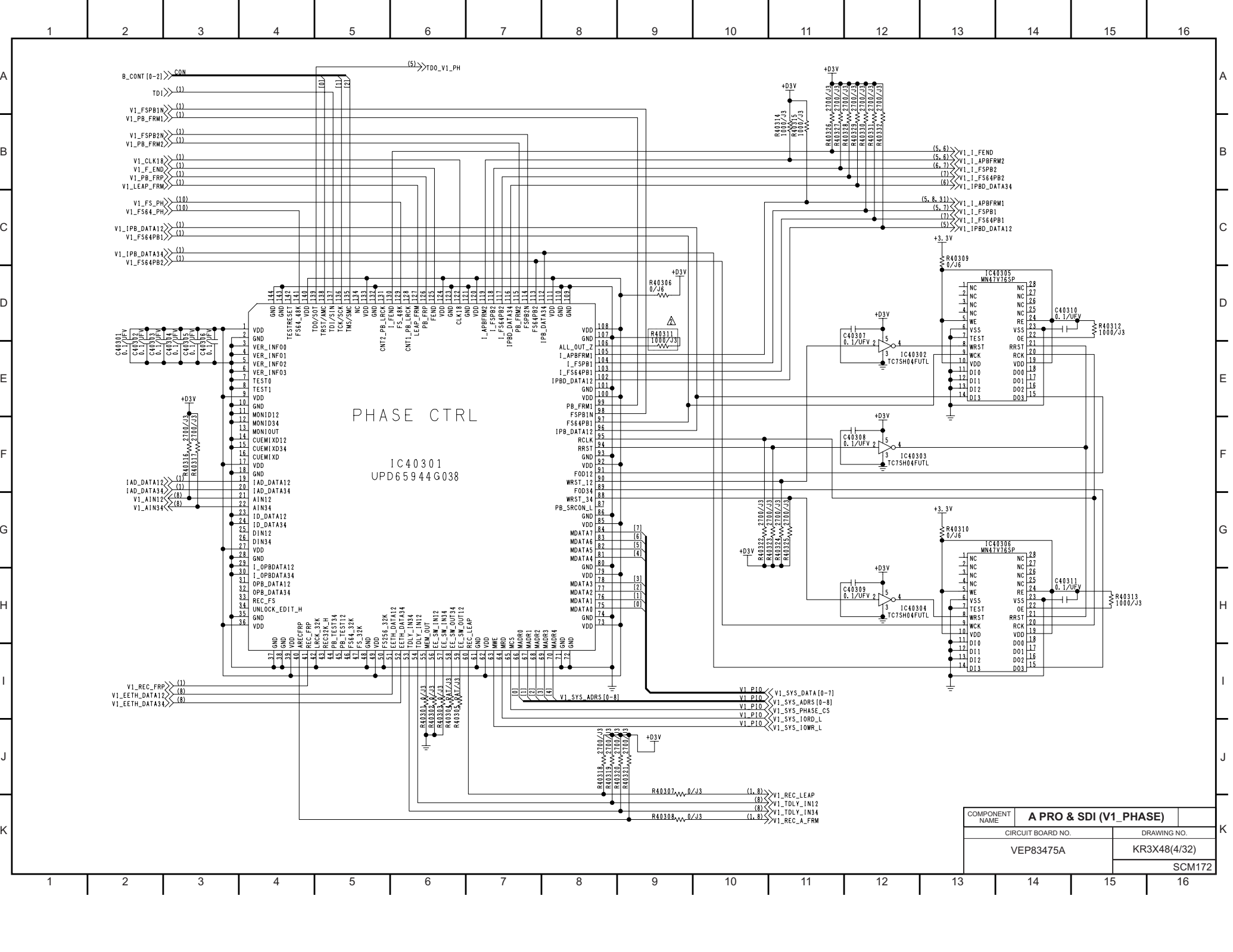
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K



COMPONENT NAME		A PRO & SDI (ANALOG IF)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(3/32)	
		SCM171	

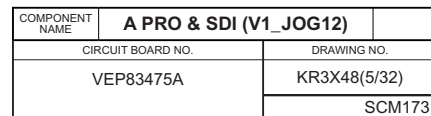
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K



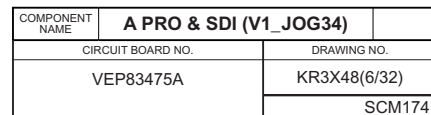


COMPONENT NAME		A PRO & SDI (V1_PHASE)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(4/32)	
		SCM172	



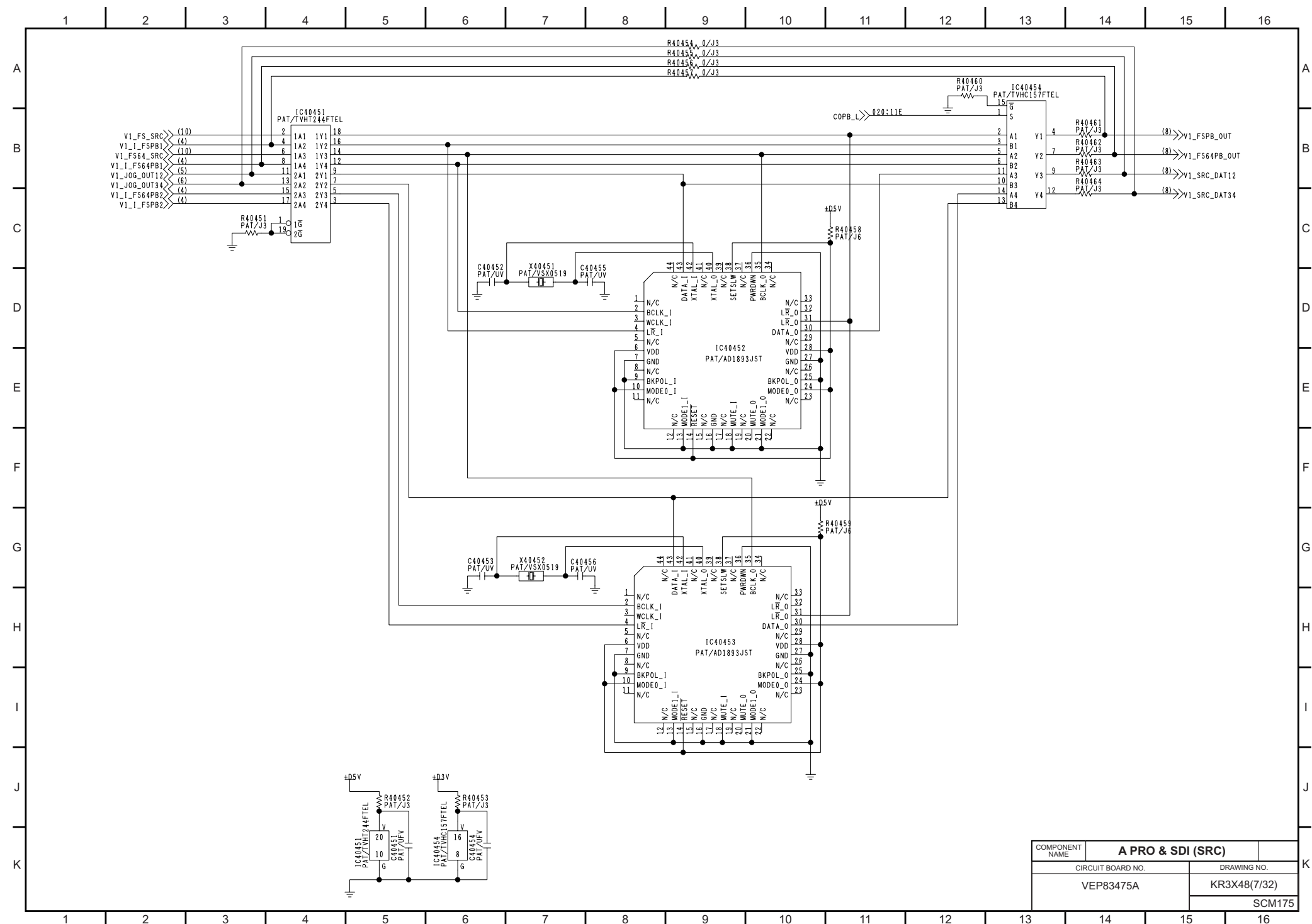




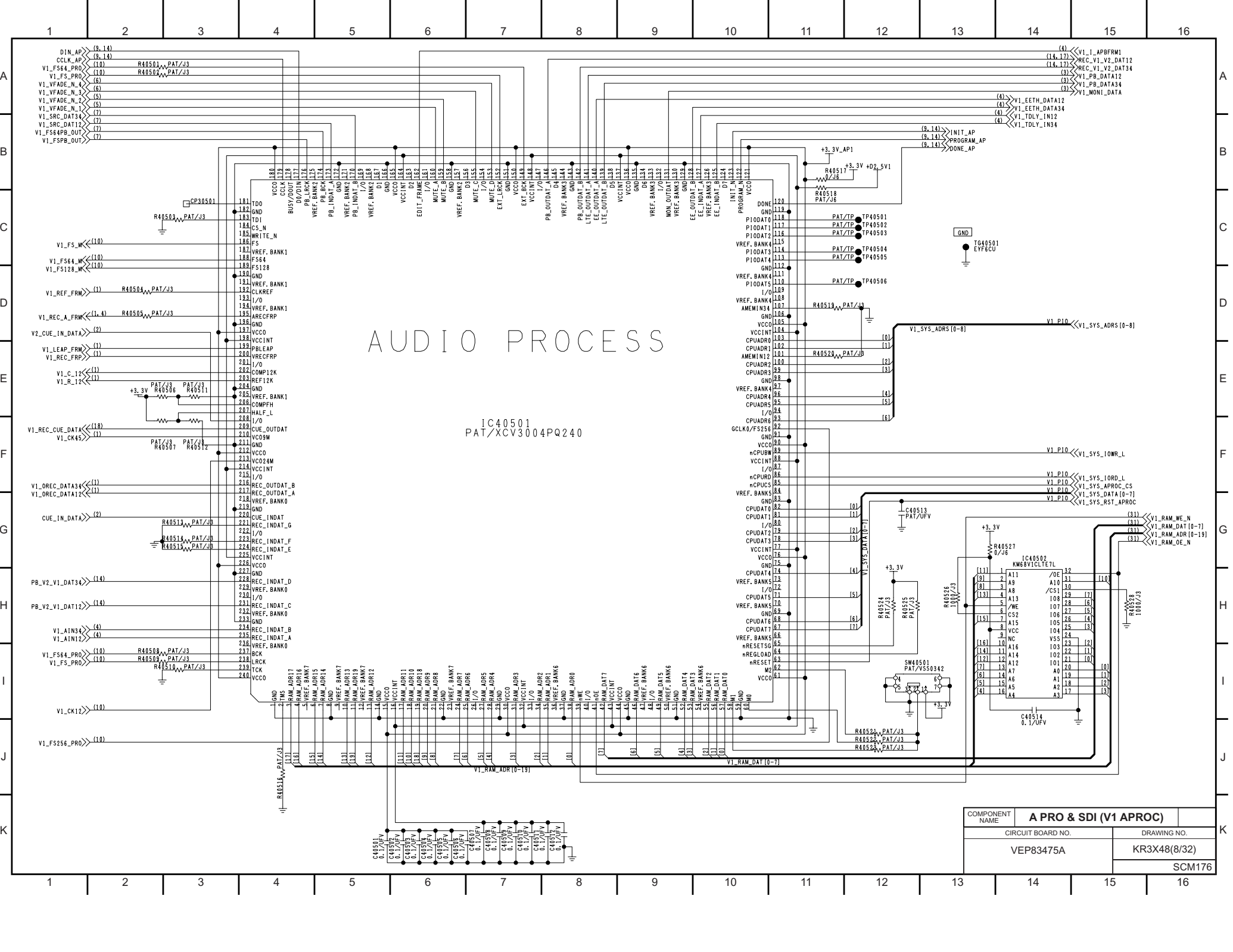


COMPONENT NAME	A PRO & SDI (V1_JOG34)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(6/32)	
		SCM174	



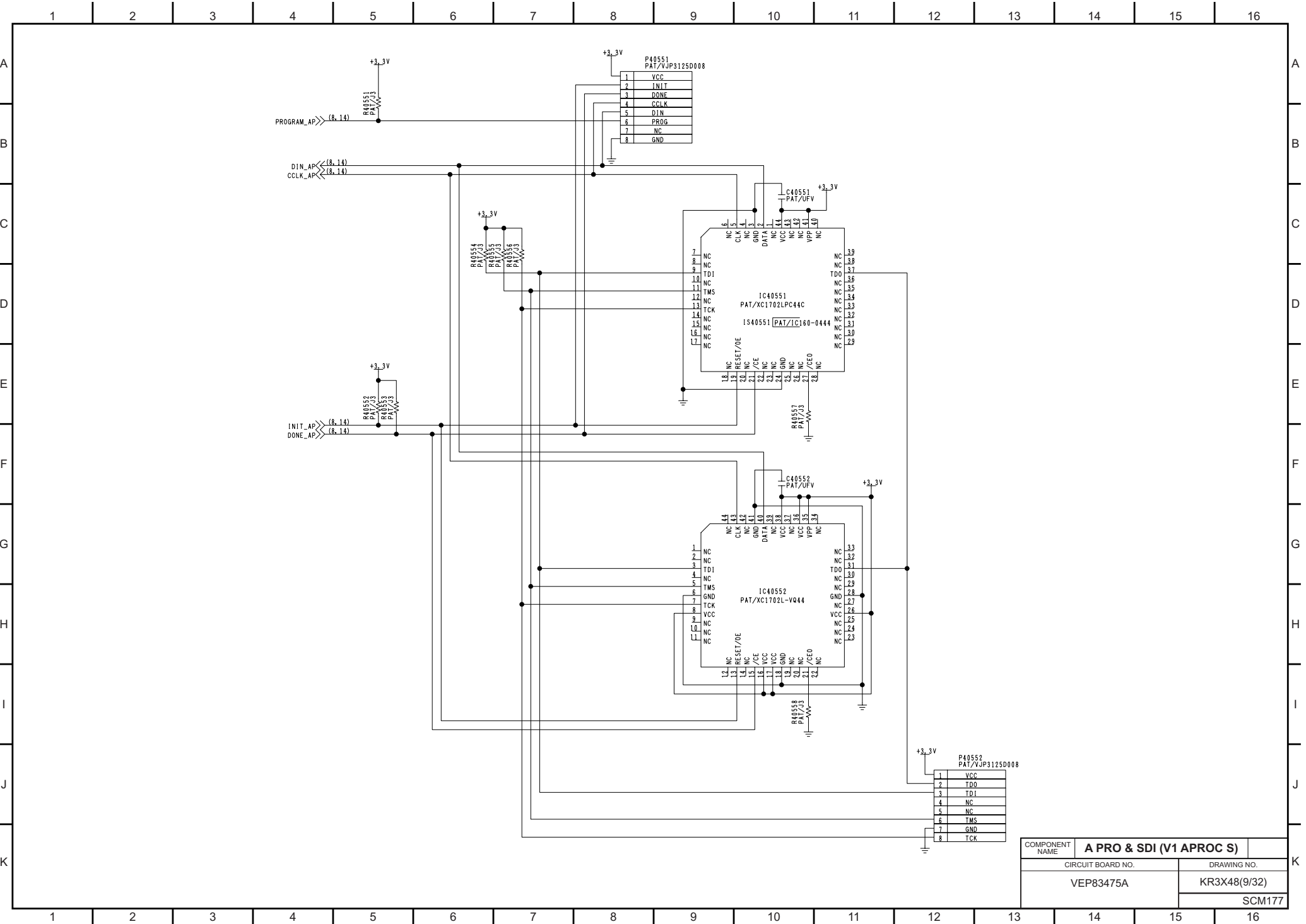






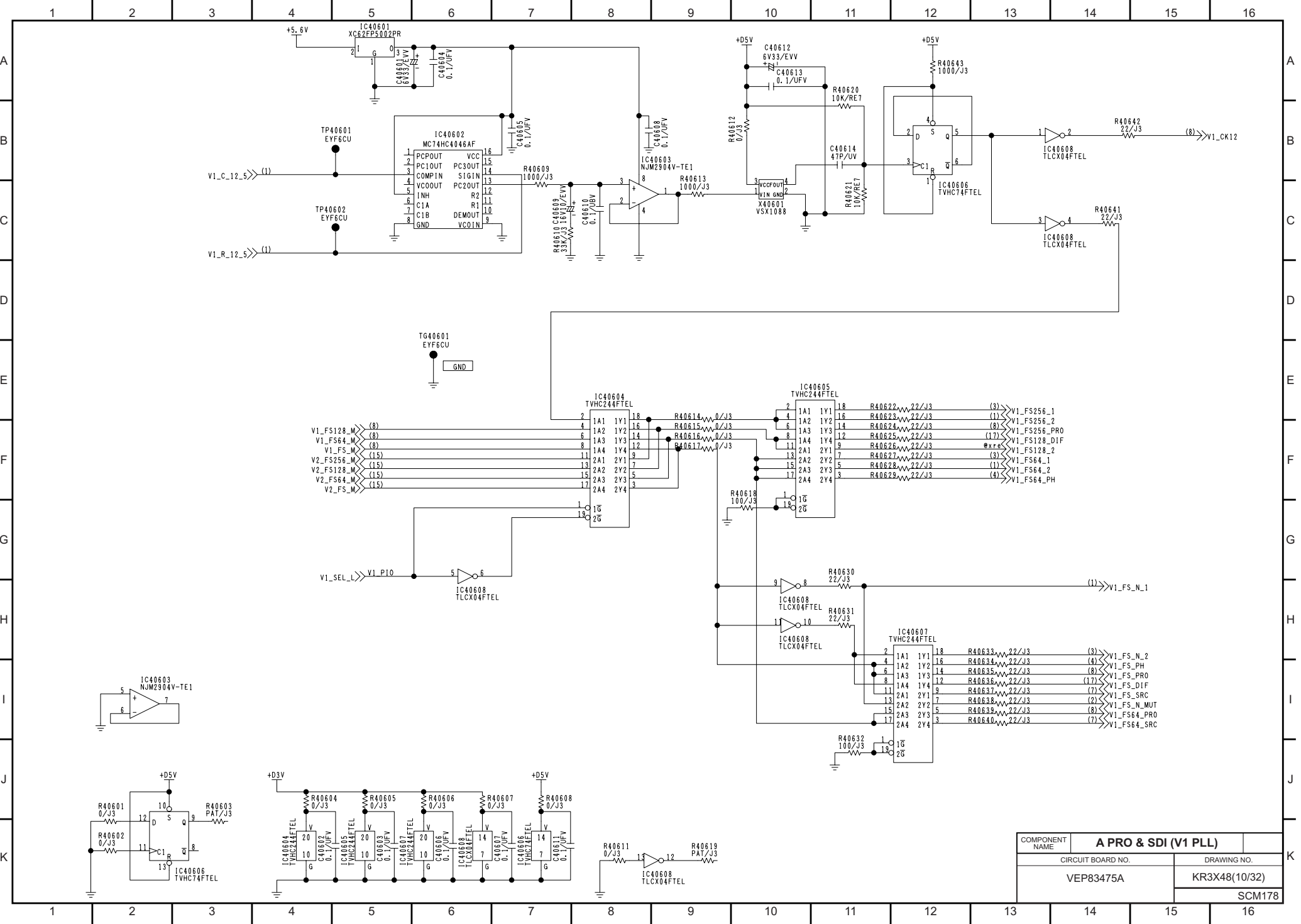
COMPONENT NAME		A PRO & SDI (V1 APROC)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(8/32)	
		SCM176	





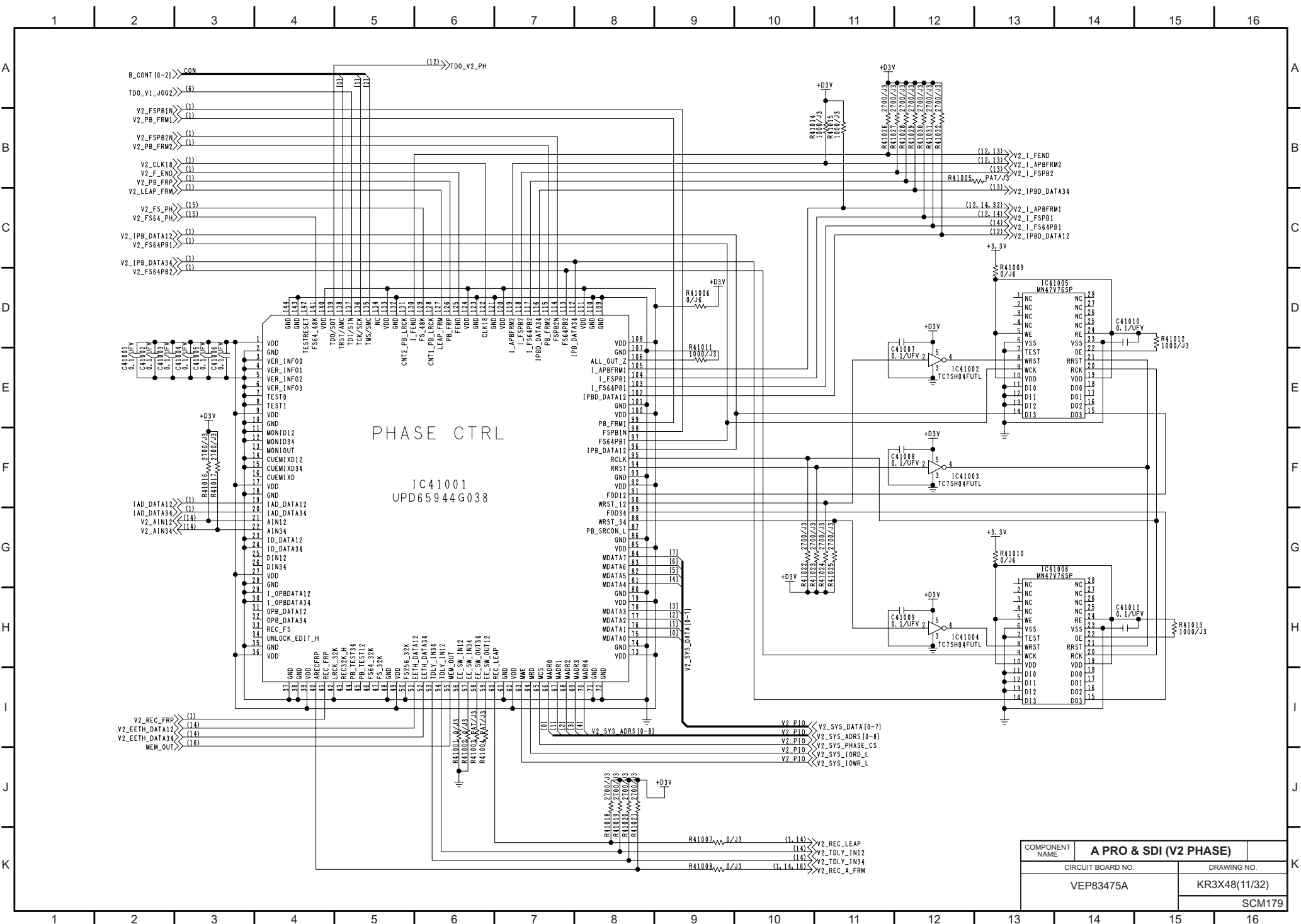
COMPONENT NAME	A PRO & SDI (V1 APROC S)	
	CIRCUIT BOARD NO.	DRAWING NO.
	VEP83475A	KR3X48(9/32)
	SCM177	



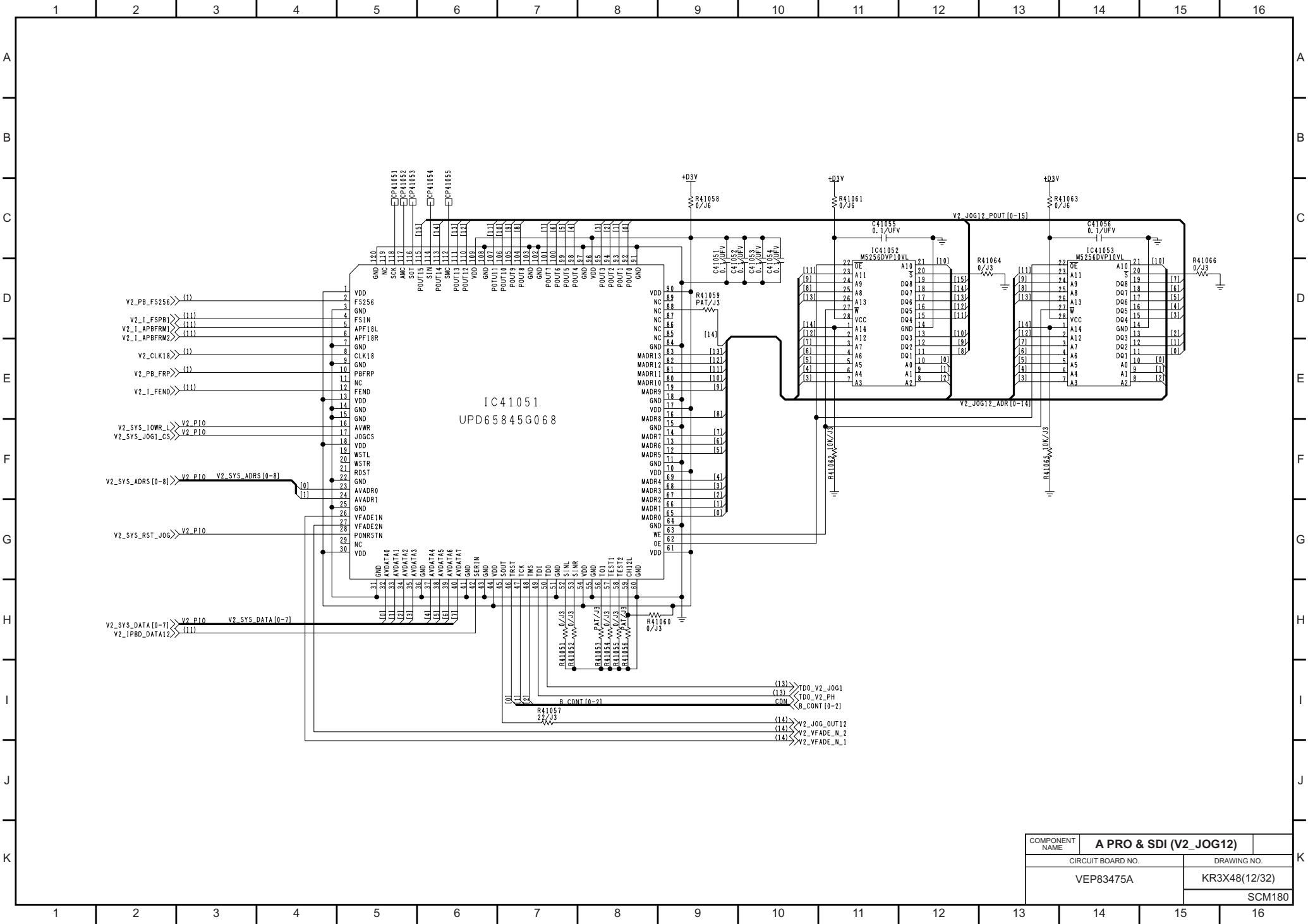


COMPONENT NAME	A PRO & SDI (V1 PLL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(10/32)
SCM178		

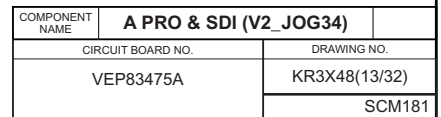




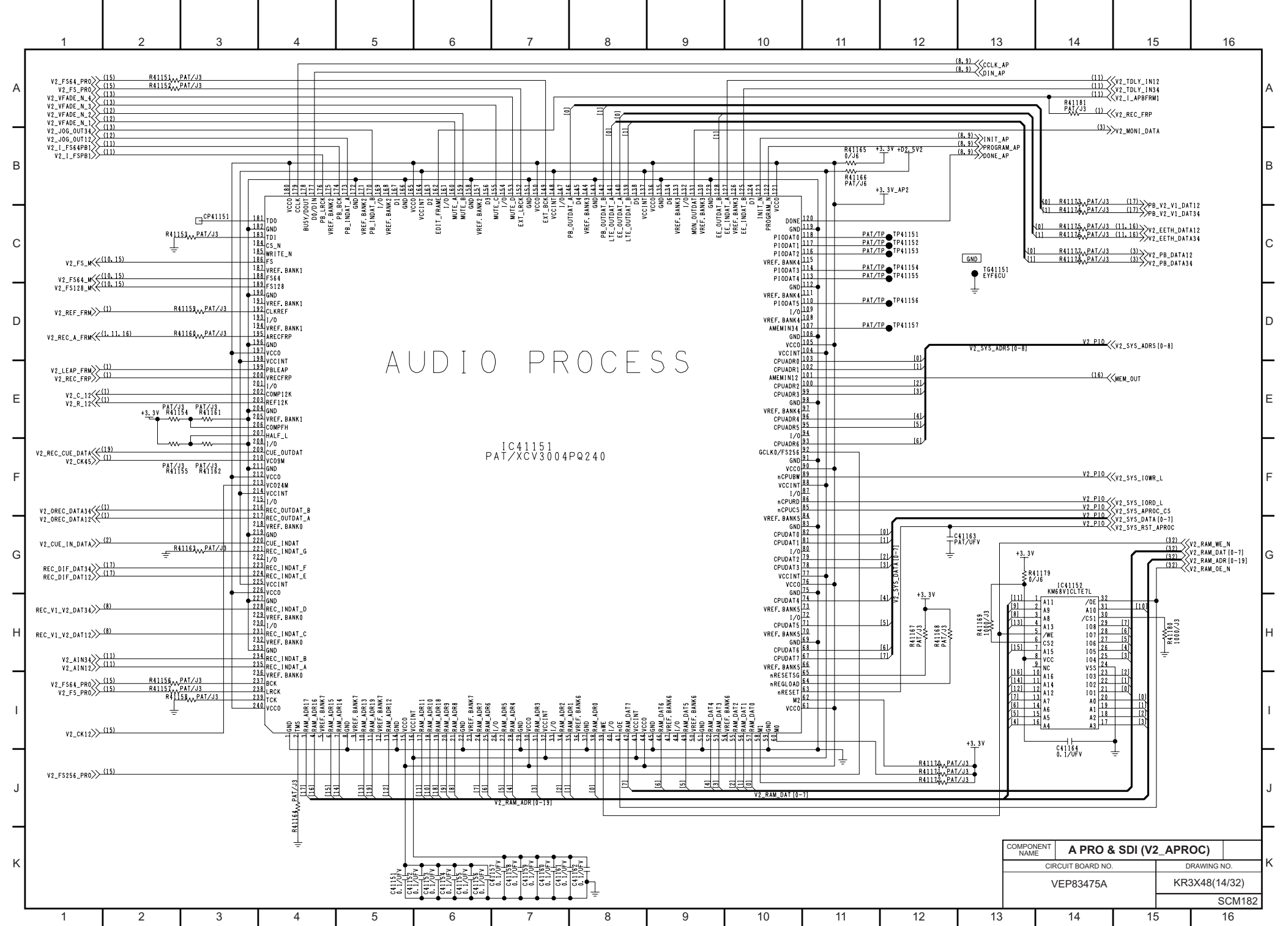




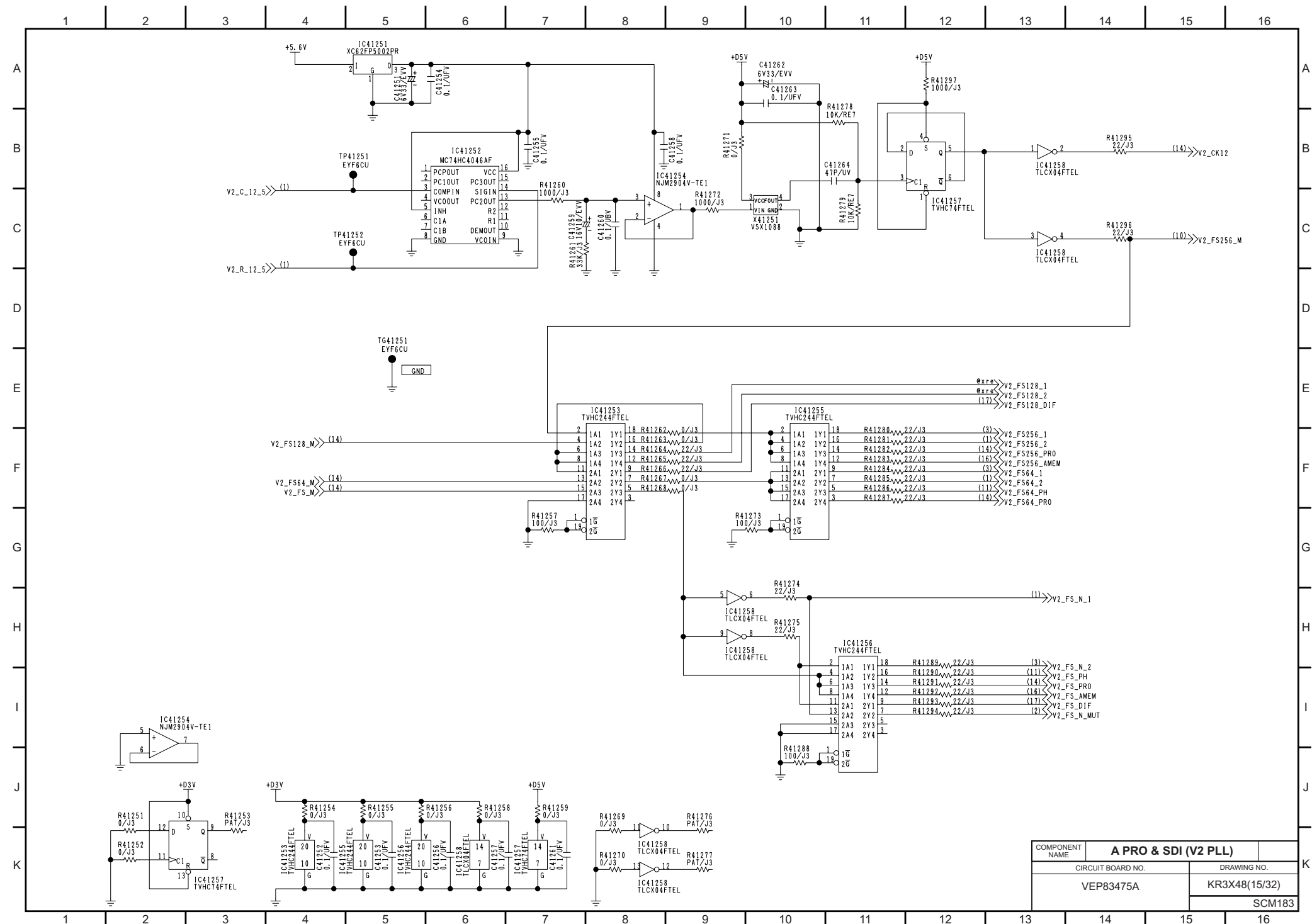




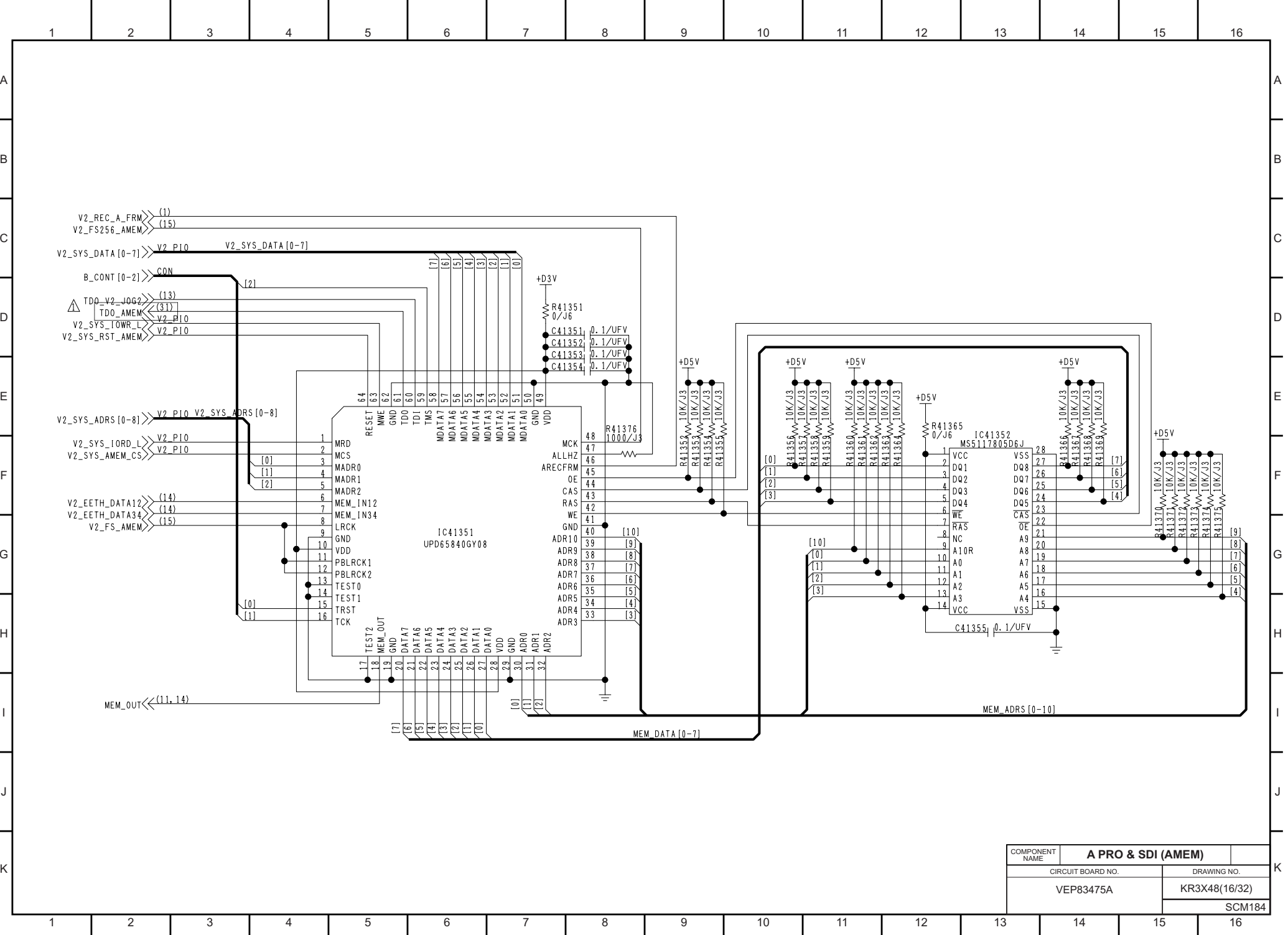






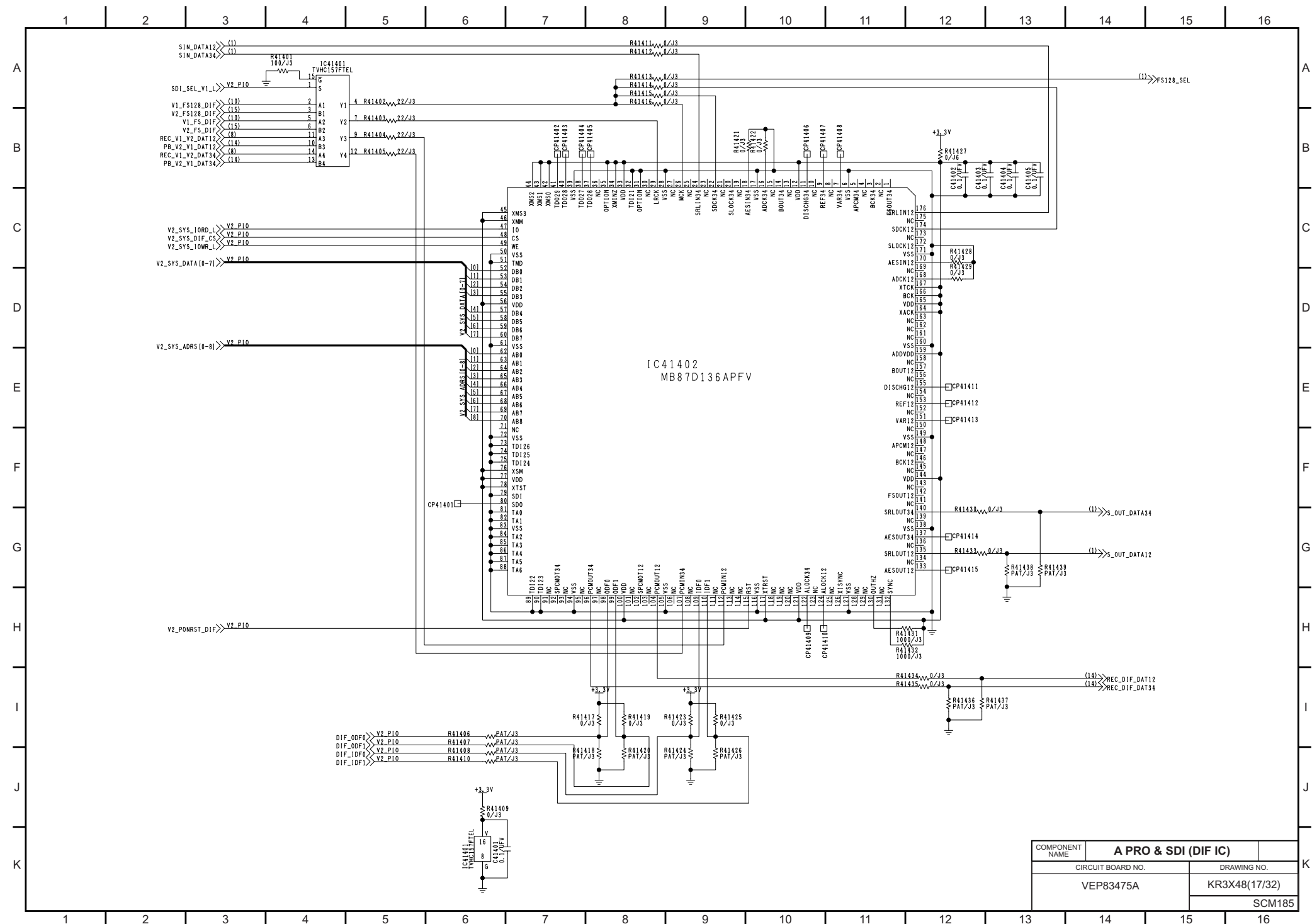




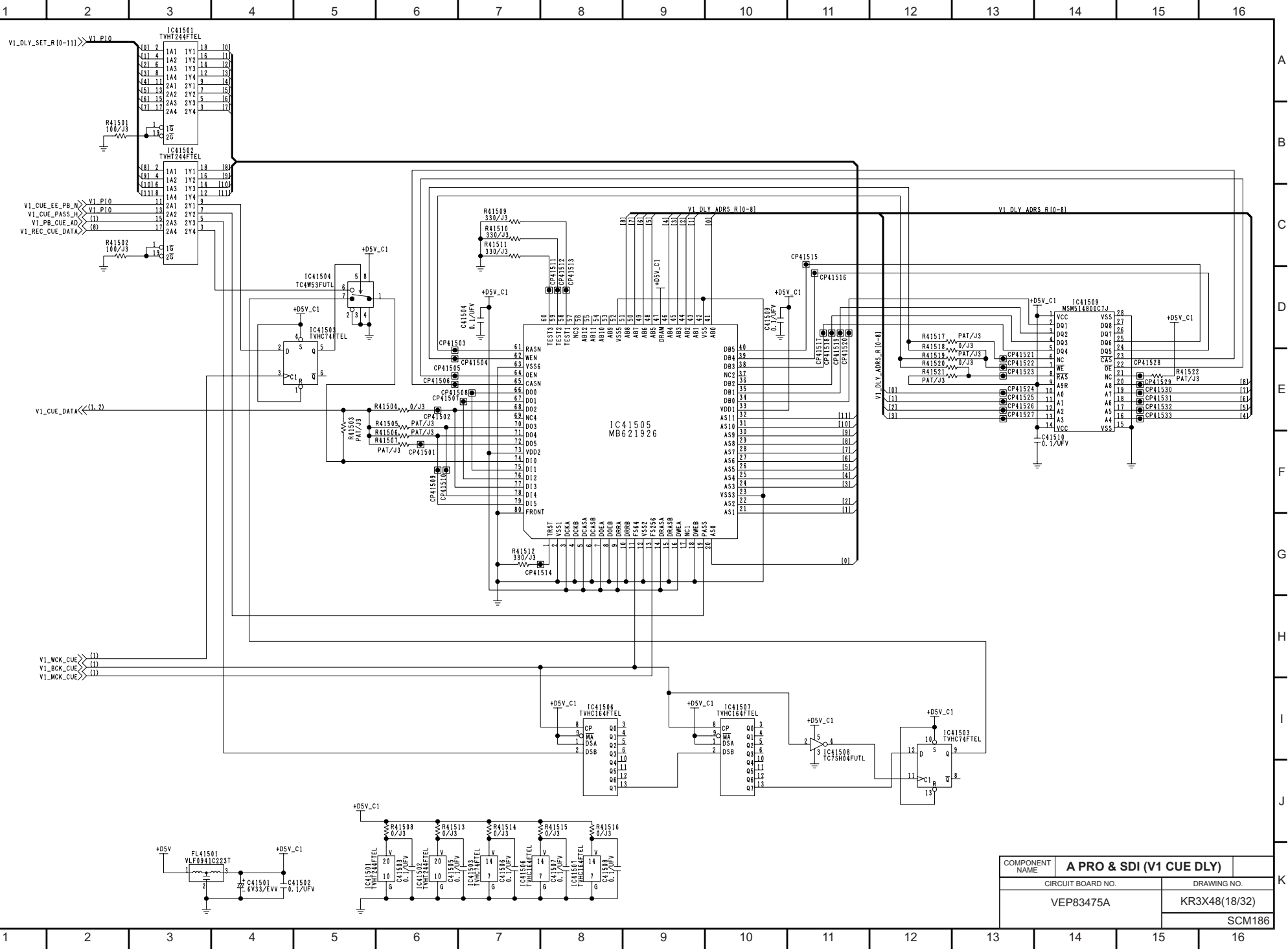


COMPONENT NAME	A PRO & SDI (AMEM)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(16/32)
SCM184		



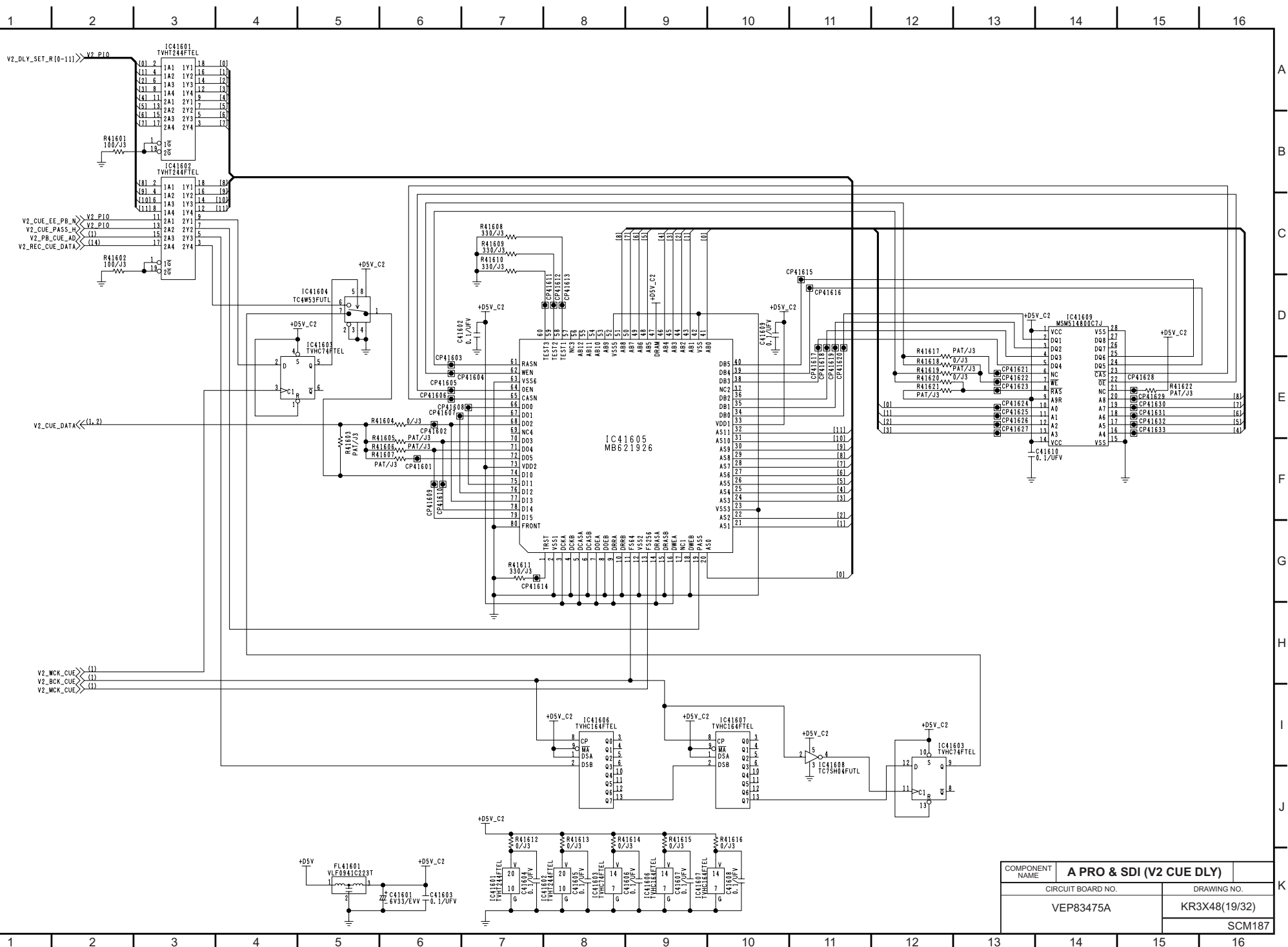






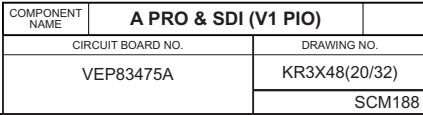
COMPONENT NAME	A PRO & SDI (V1 CUE DLY)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(18/32)	
		SCM186	





COMPONENT NAME	A PRO & SDI (V2 CUE DLY)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(19/32)
		SCM187

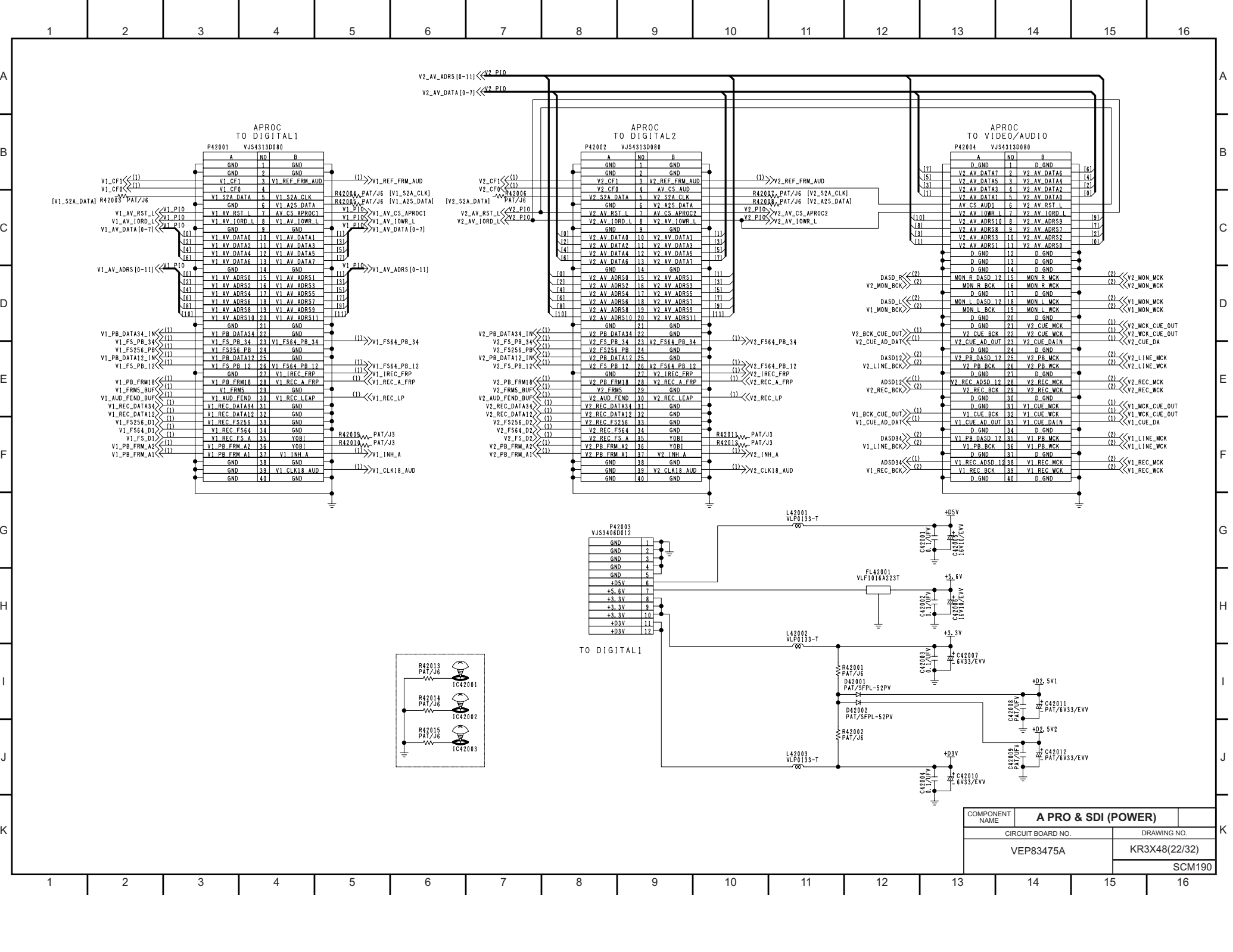






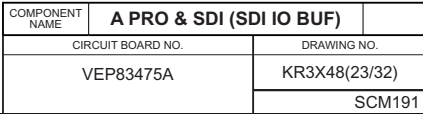




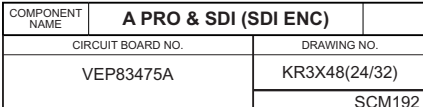


COMPONENT NAME		A PRO & SDI (POWER)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(22/32)	
		SCM190	

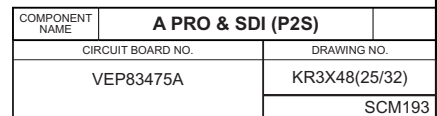






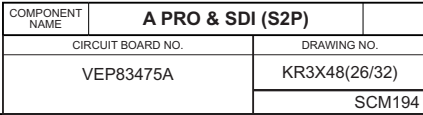






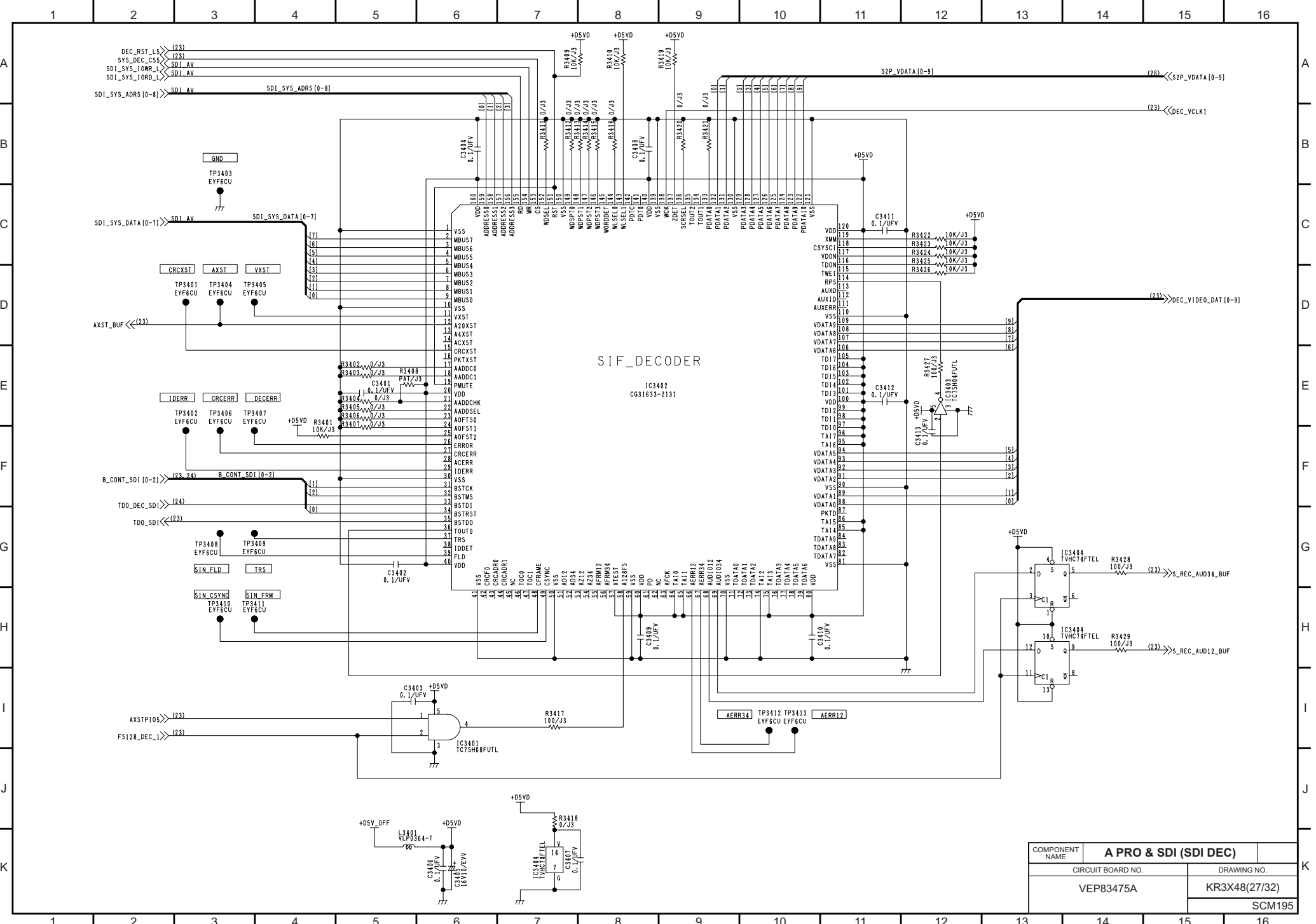
COMPONENT NAME	A PRO & SDI (P2S)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83475A	KR3X48(25/32)	
	SCM193	





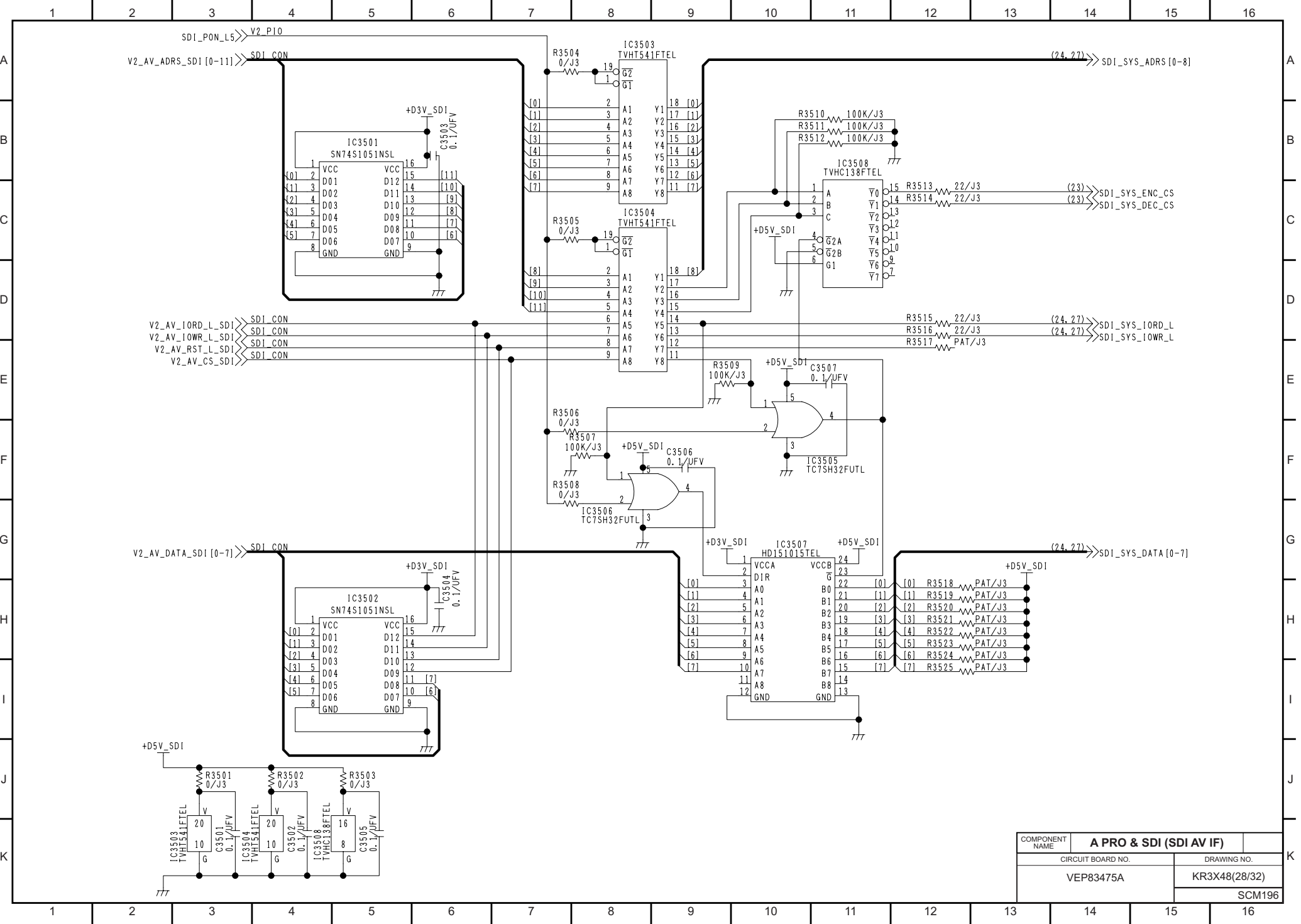
COMPONENT NAME	<b>A PRO &amp; SDI (S2P)</b>		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(26/32)	
		SCM194	





COMPONENT NAME	A PRO & SDI (SDI DEC)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(27/32)	
		SCM195	



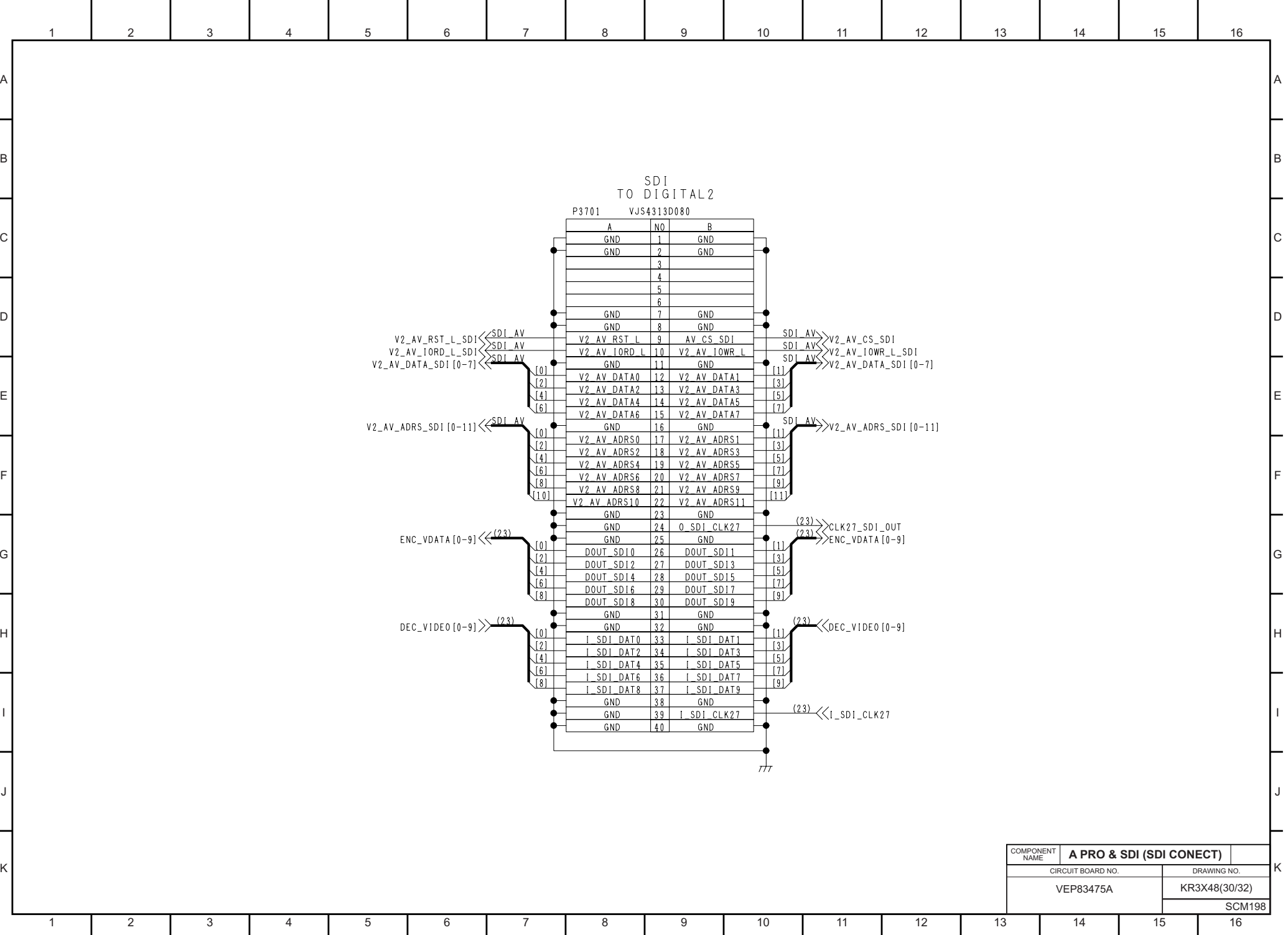


COMPONENT NAME	A PRO & SDI (SDI AV IF)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(28/32)	
		SCM196	







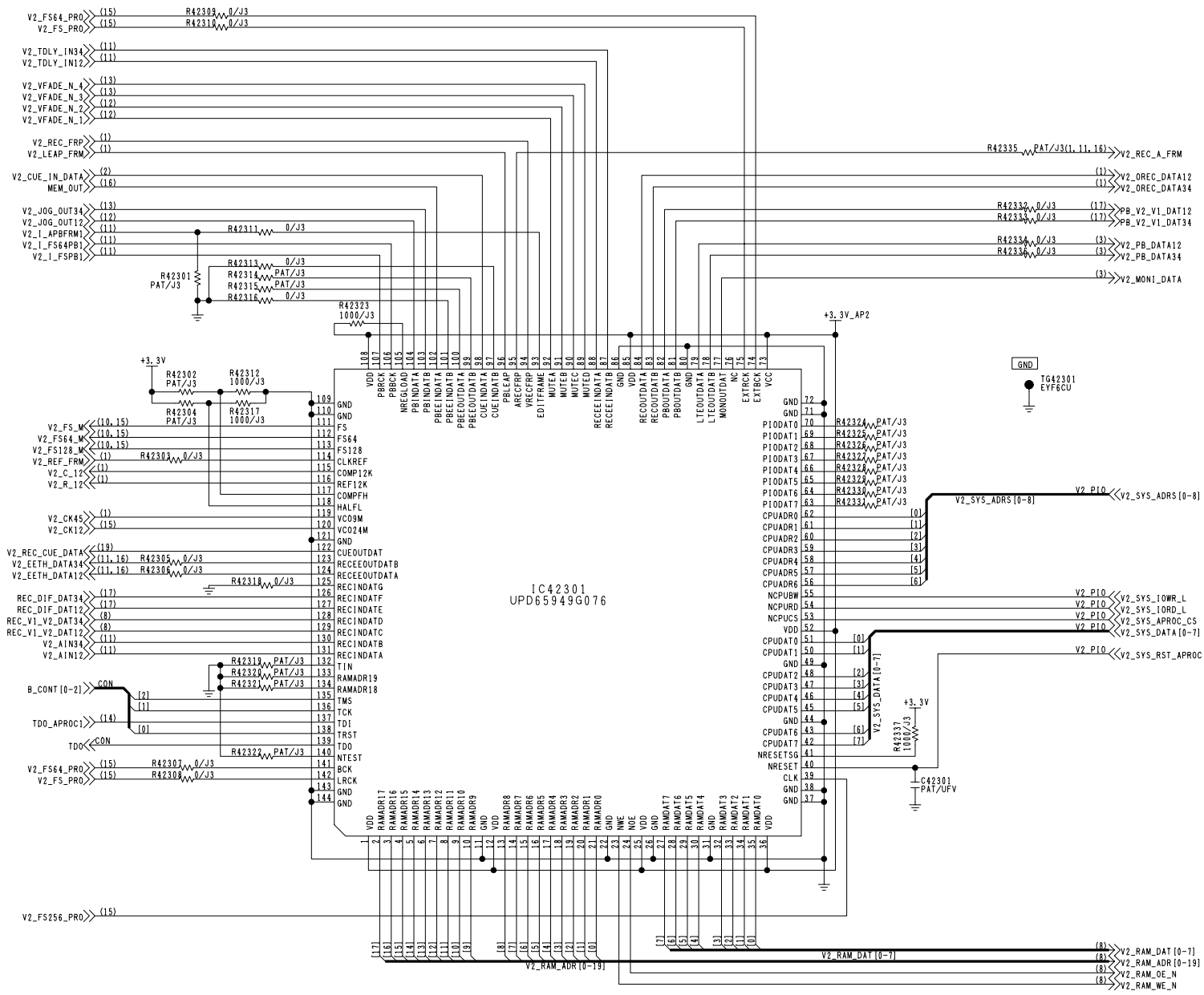


COMPONENT NAME	A PRO & SDI (SDI CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83475A		KR3X48(30/32)
		SCM198



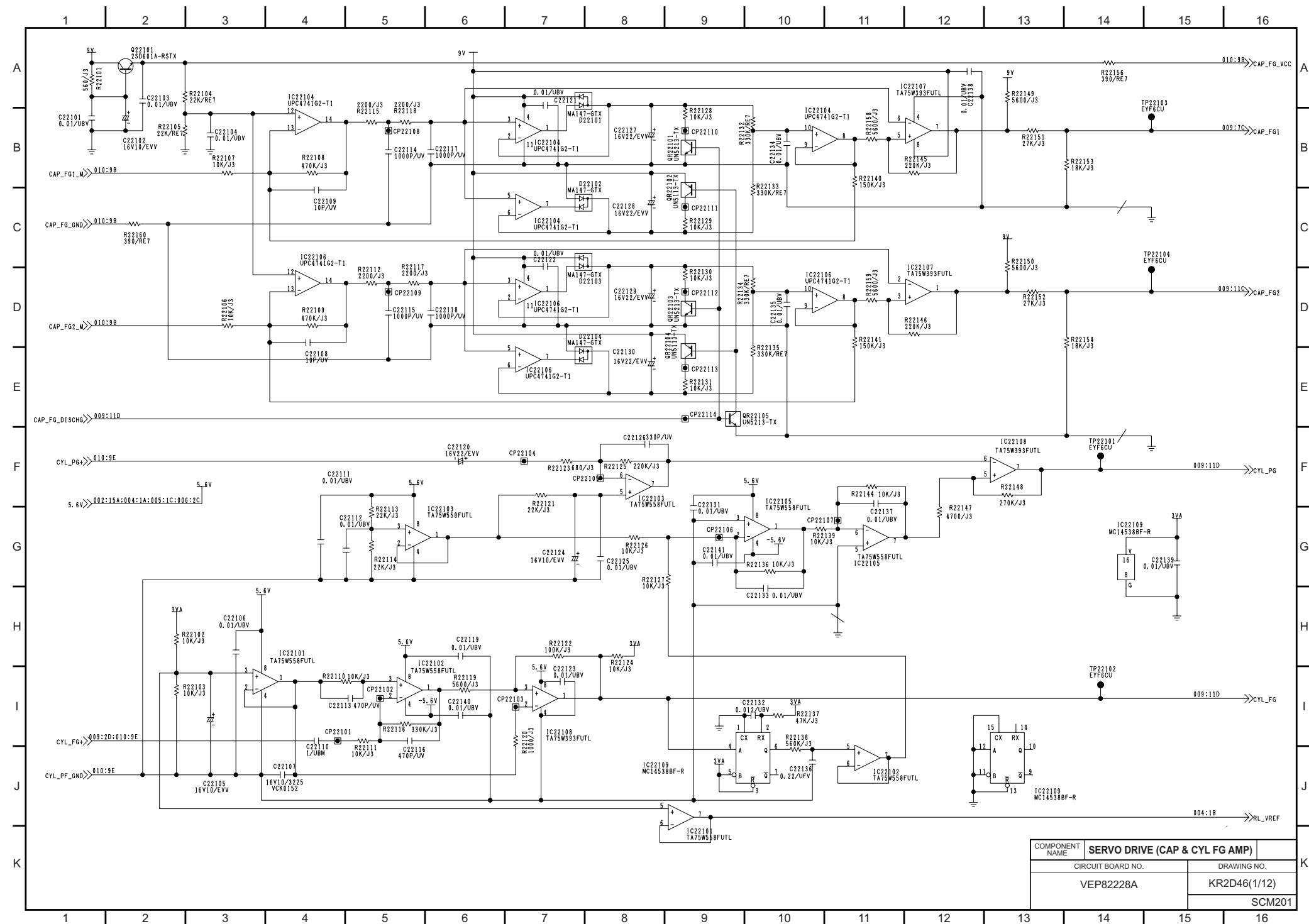






COMPONENT NAME	A PRO & SDI (V2 APROC)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83475A		KR3X48(32/32)	
		SCM200	



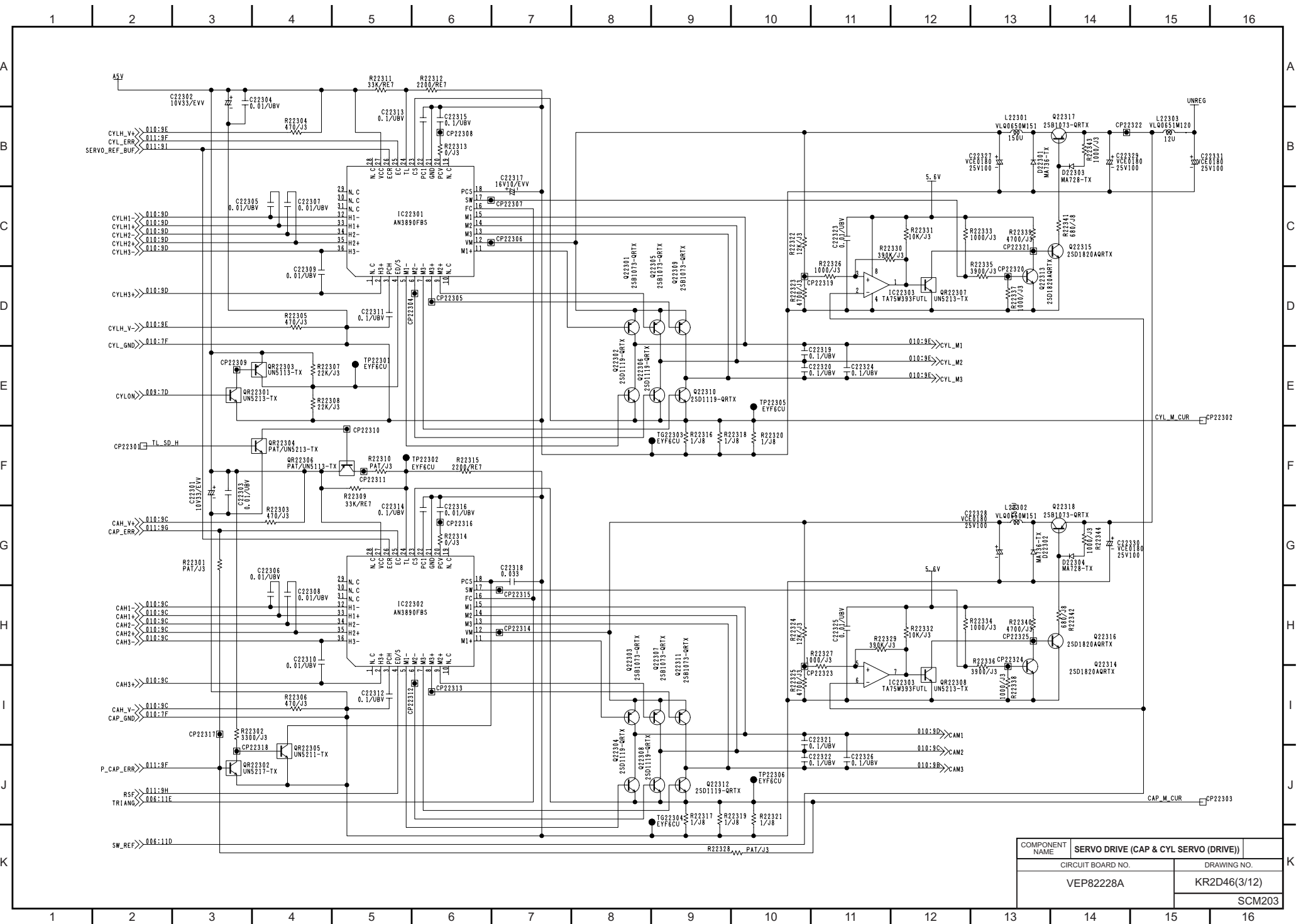


COMPONENT NAME	SERVO DRIVE (CAP & CYL FG AMP)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82228A		KR2D46(1/12)	
		SCM201	



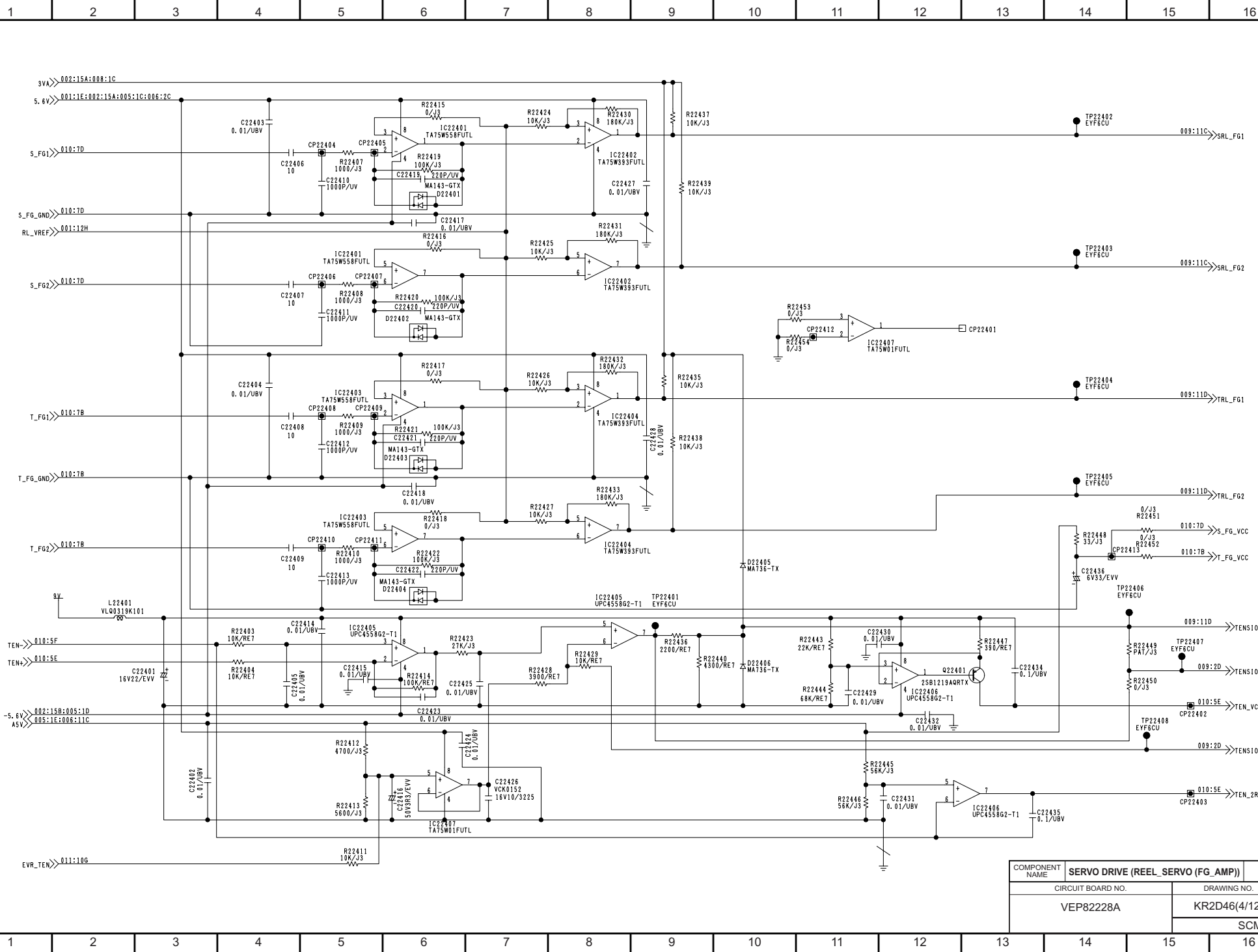






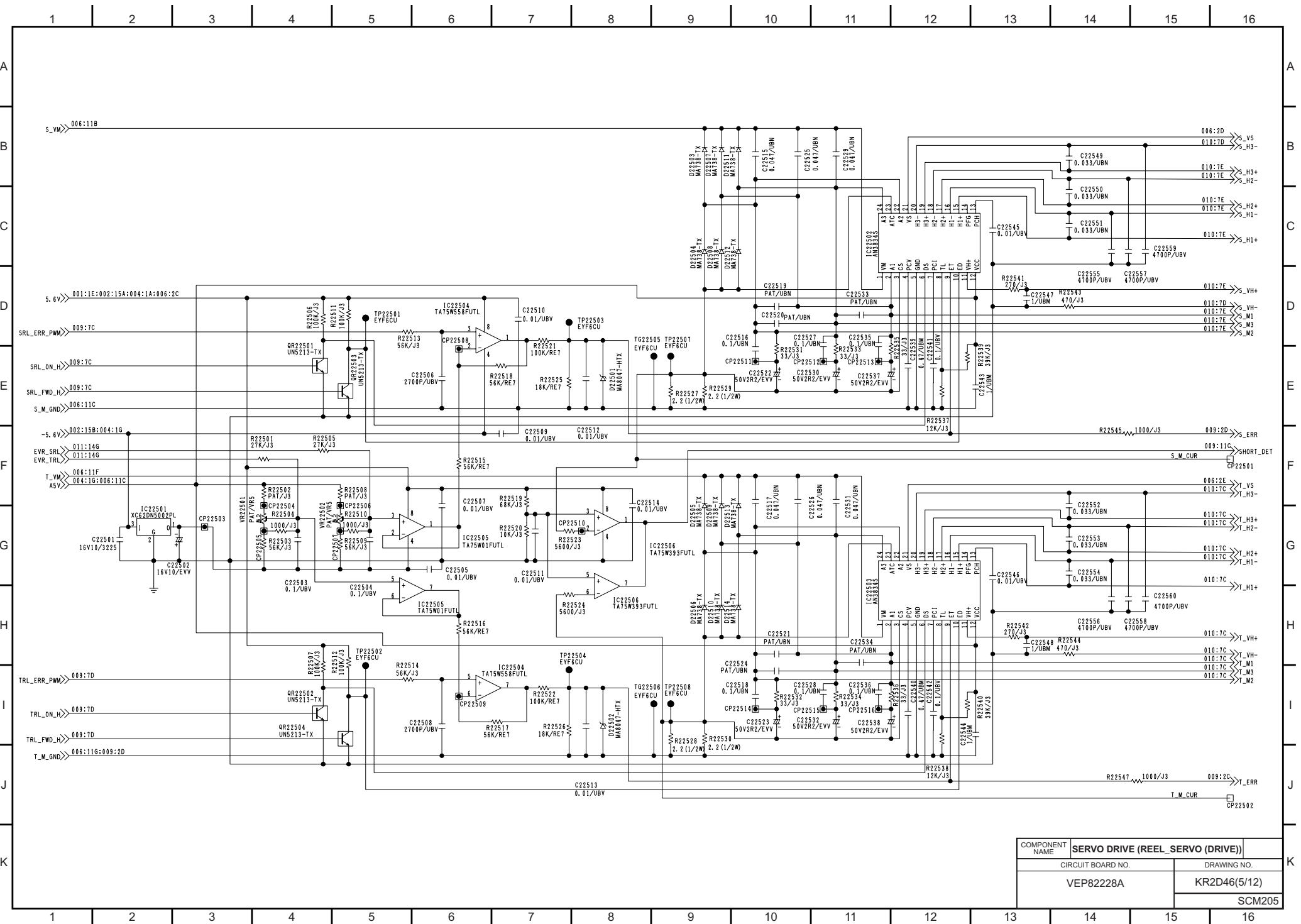
COMPONENT NAME		SERVO DRIVE (CAP & CYL SERVO (DRIVE))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82228A		KR2D46(3/12)	
		SCM203	





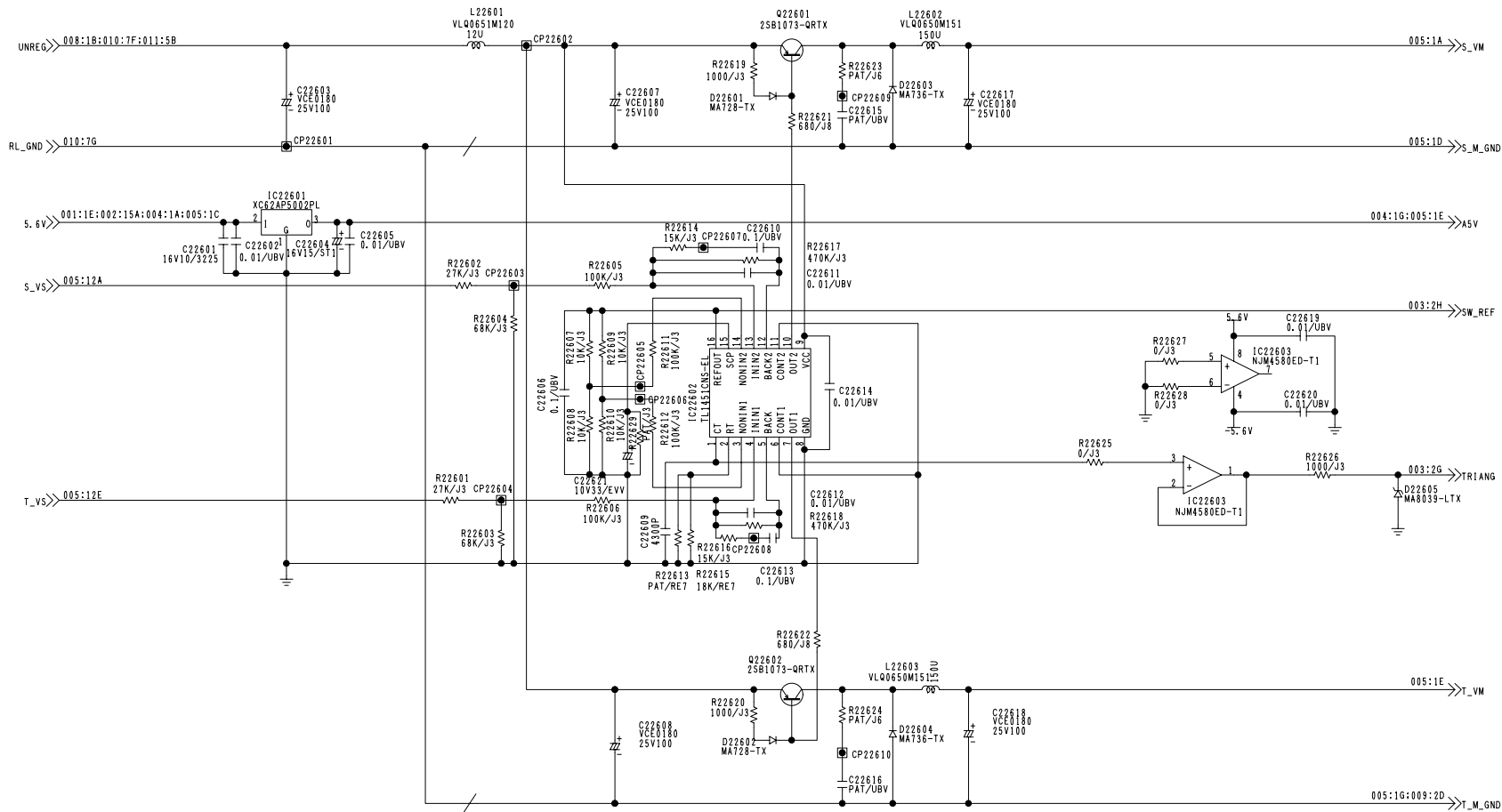
COMPONENT NAME	SERVO DRIVE (REEL_SERVO (FG_AMP))		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82228A		KR2D46(4/12)	
		SCM204	





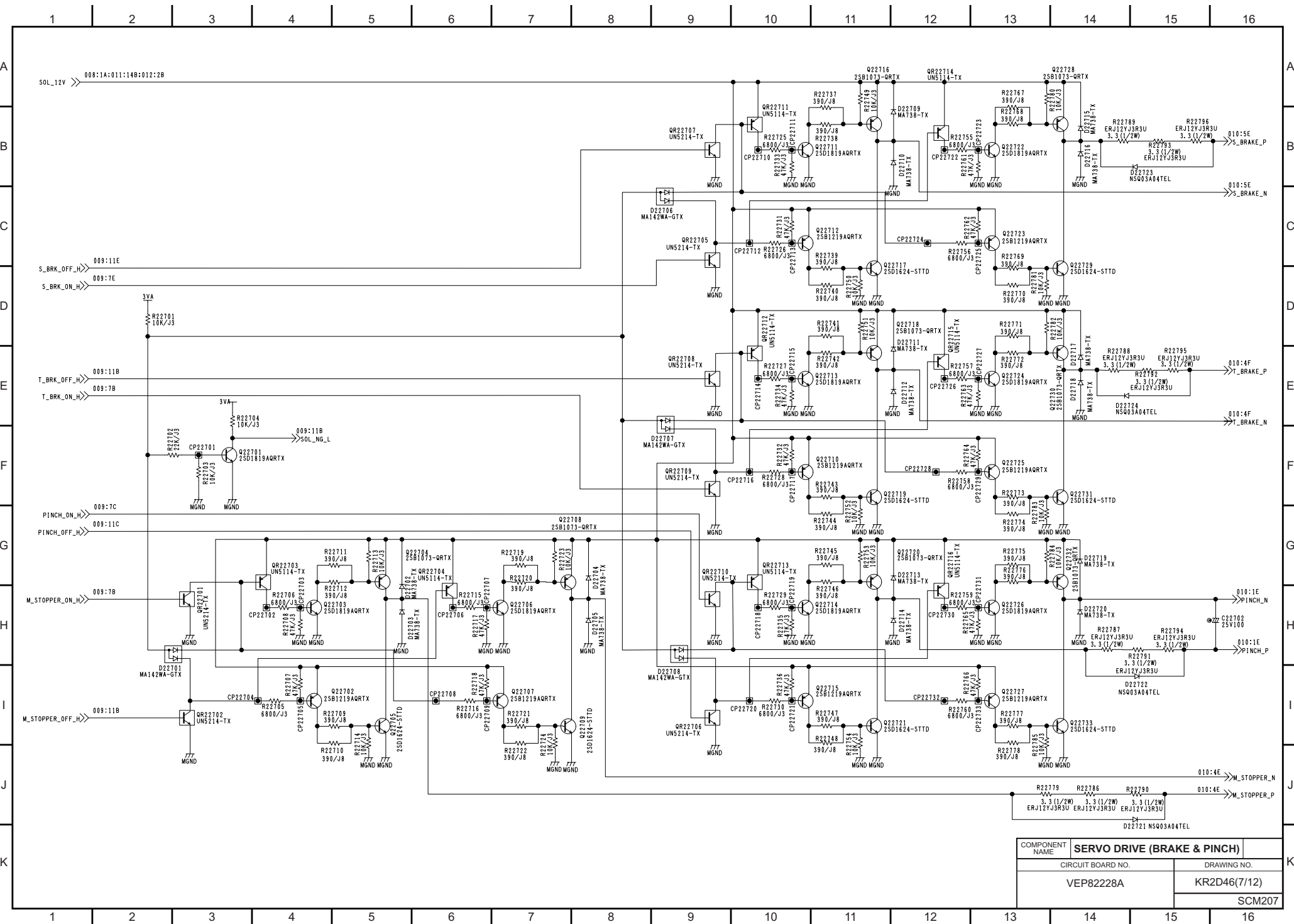
COMPONENT NAME	SERVO DRIVE (REEL_SERVO (DRIVE))	
CIRCUIT BOARD NO.	VEP82228A	DRAWING NO.
		KR2D46(5/12)
		SCM205





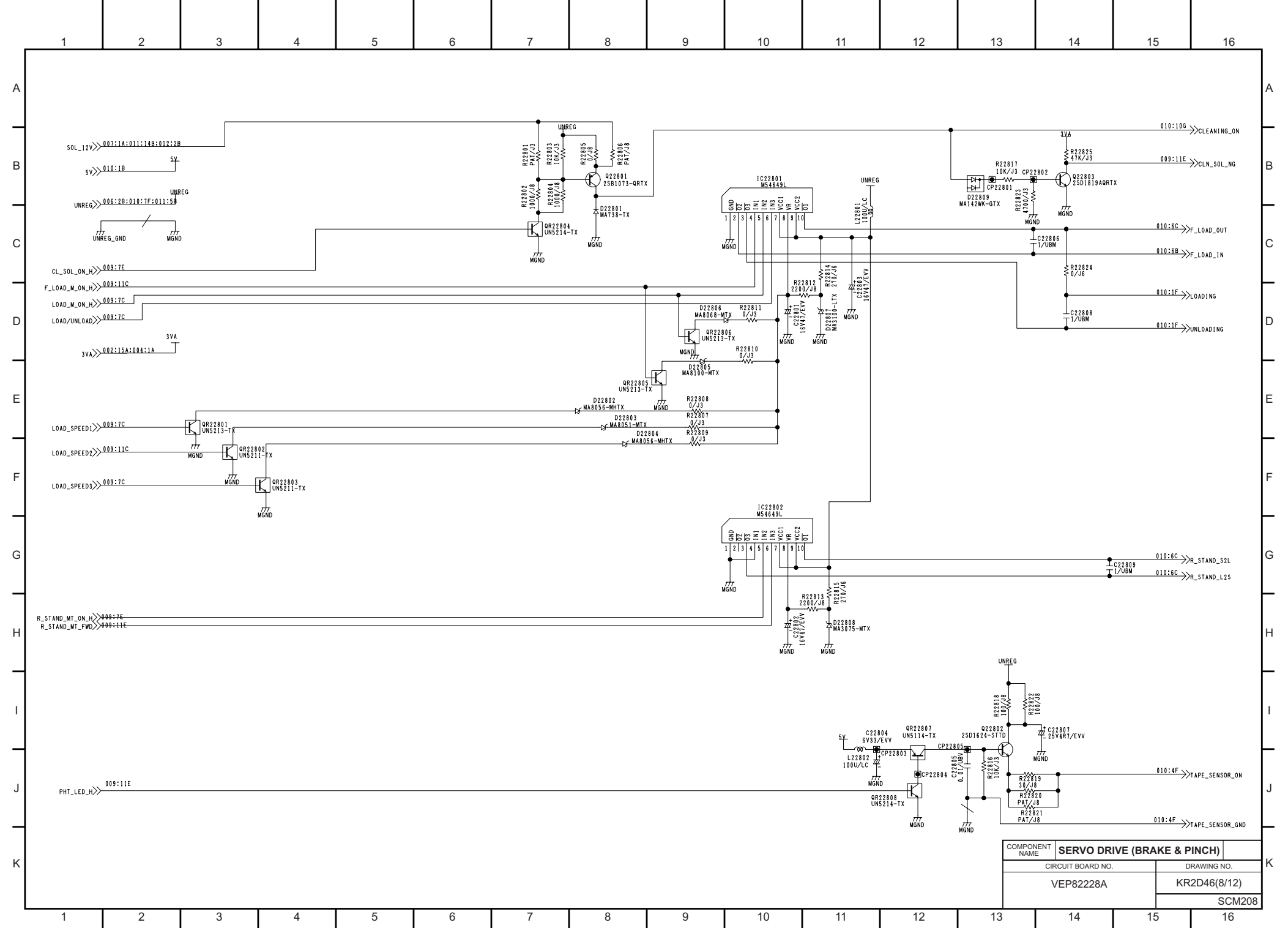
COMPONENT NAME	SERVO DRIVE (REEL_SERVO (SW_POWER))	
CIRCUIT BOARD NO.	VEP82228A	DRAWING NO.
		KR2D46(6/12)
		SCM206



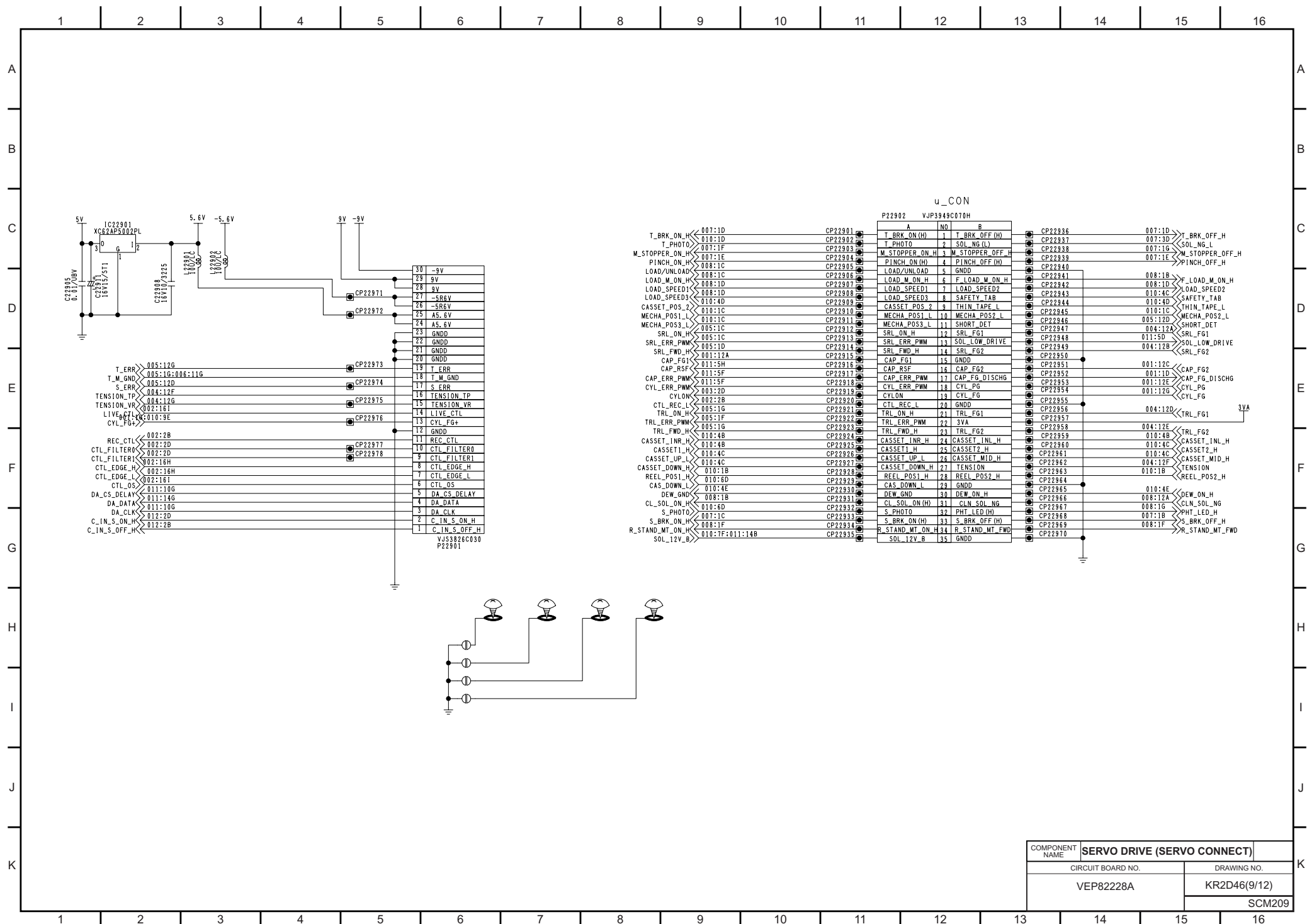


COMPONENT NAME		SERVO DRIVE (BRAKE & PINCH)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82228A		KR2D46(7/12)	
		SCM207	

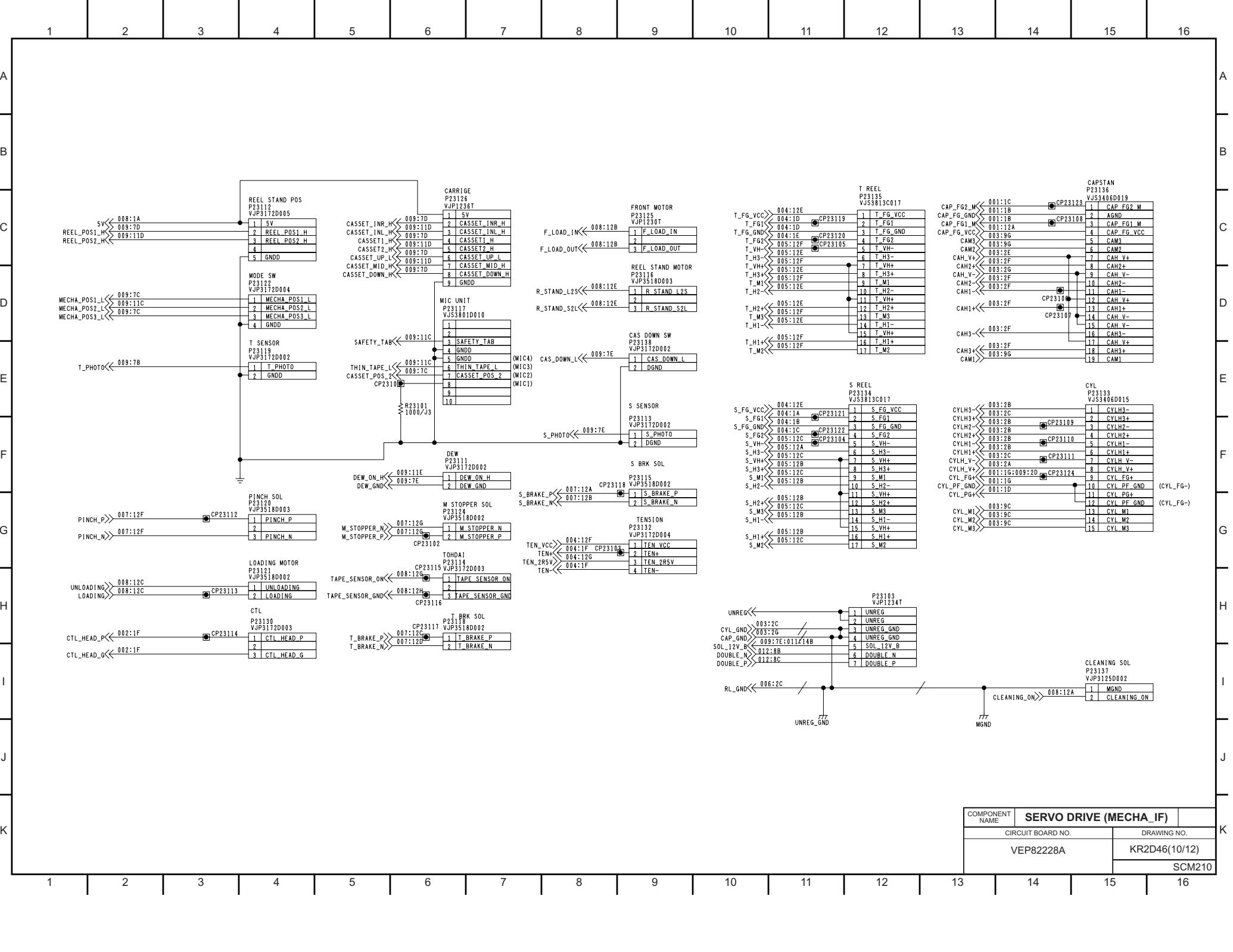






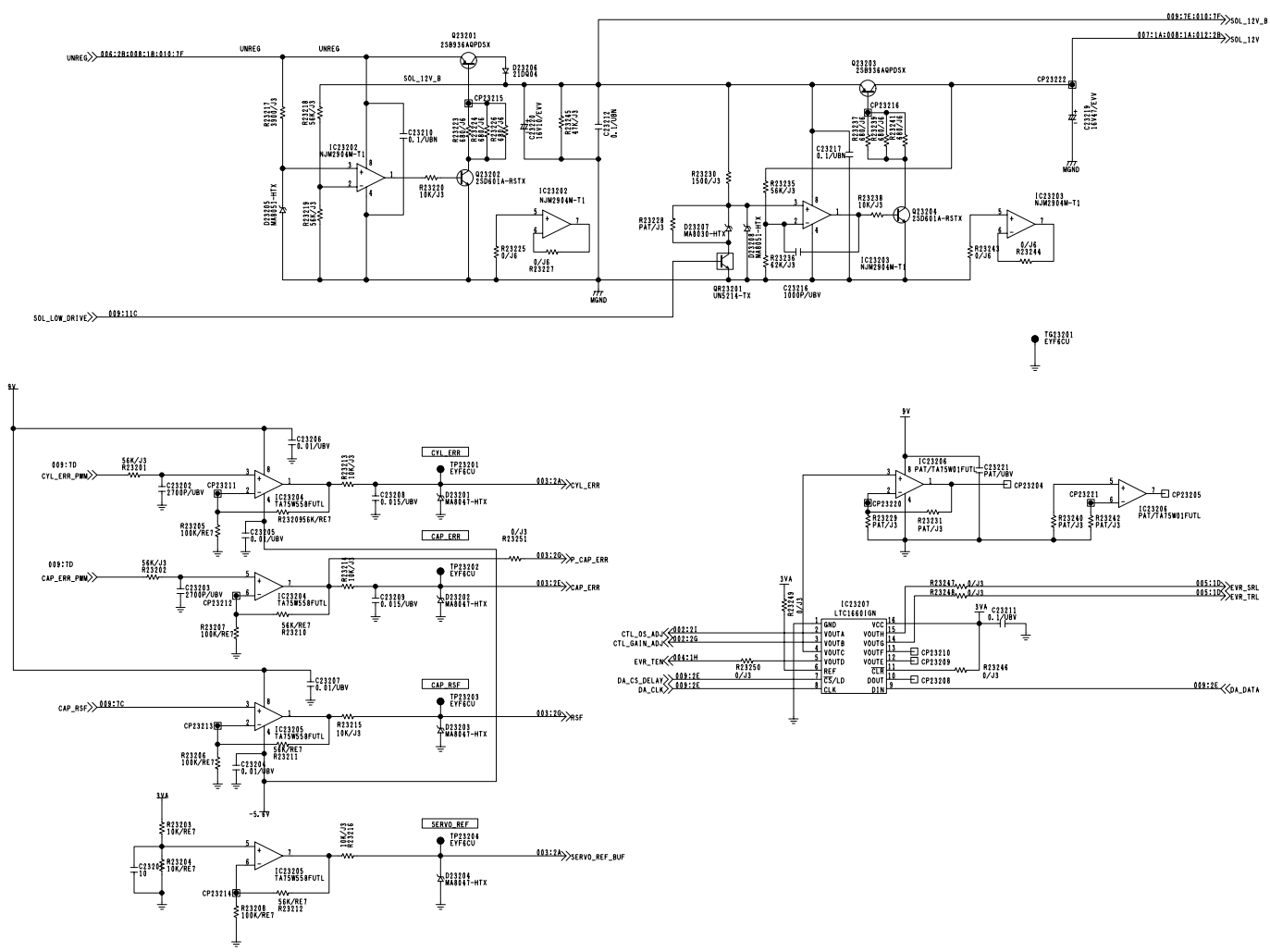






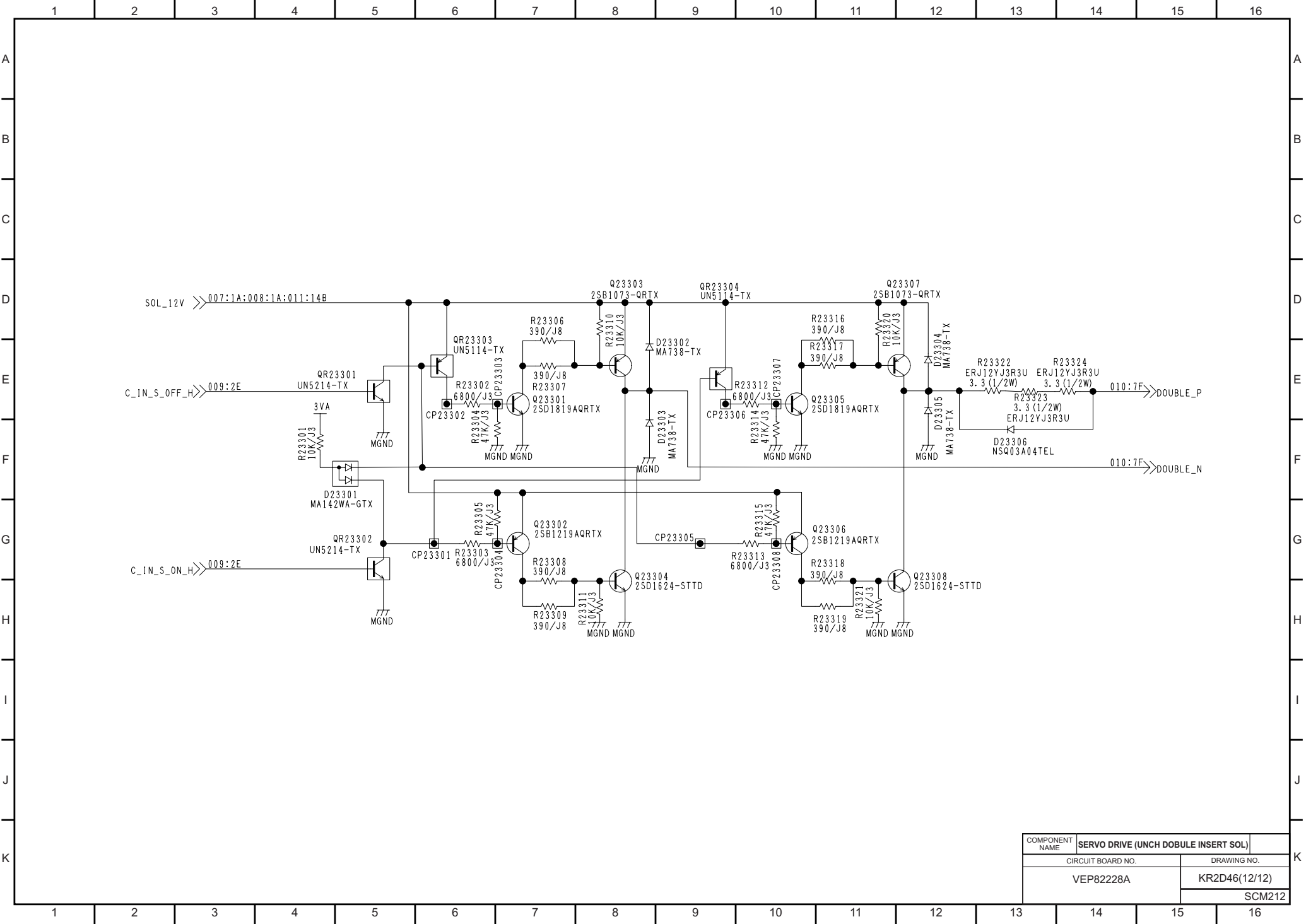
COMPONENT NAME	SERVO DRIVE (MECHA_IF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP82228A		KR2D46(10/12)
		SCM210





COMPONENT NAME	SERVO DRIVE (DACK & PWM & SOL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP82228A		KR2D46(11/12)
SCM211		



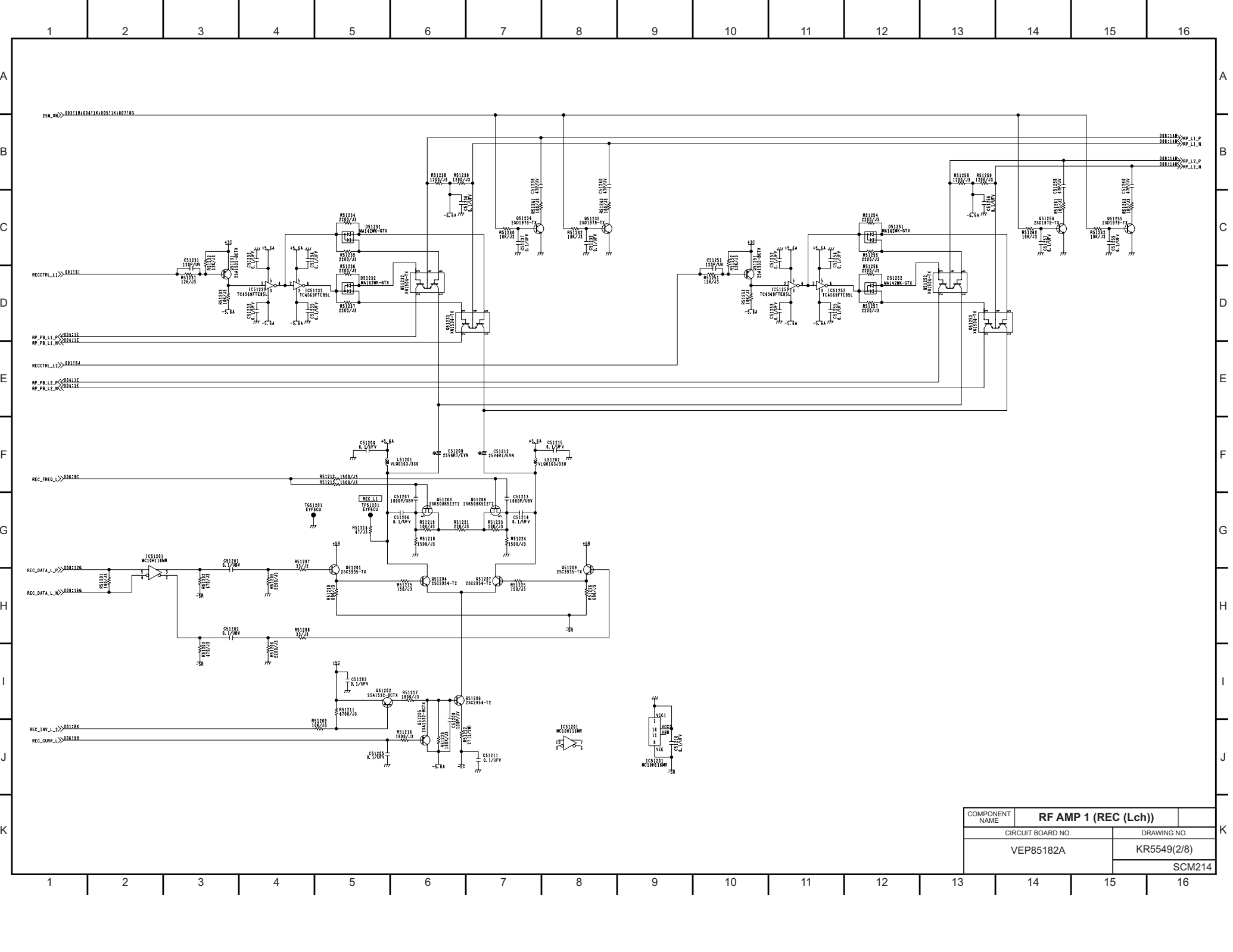


COMPONENT NAME	SERVO DRIVE (UNCH DOBULE INSERT SOL)	
CIRCUIT BOARD NO.	VEP82228A	DRAWING NO.
		KR2D46(12/12)
		SCM212



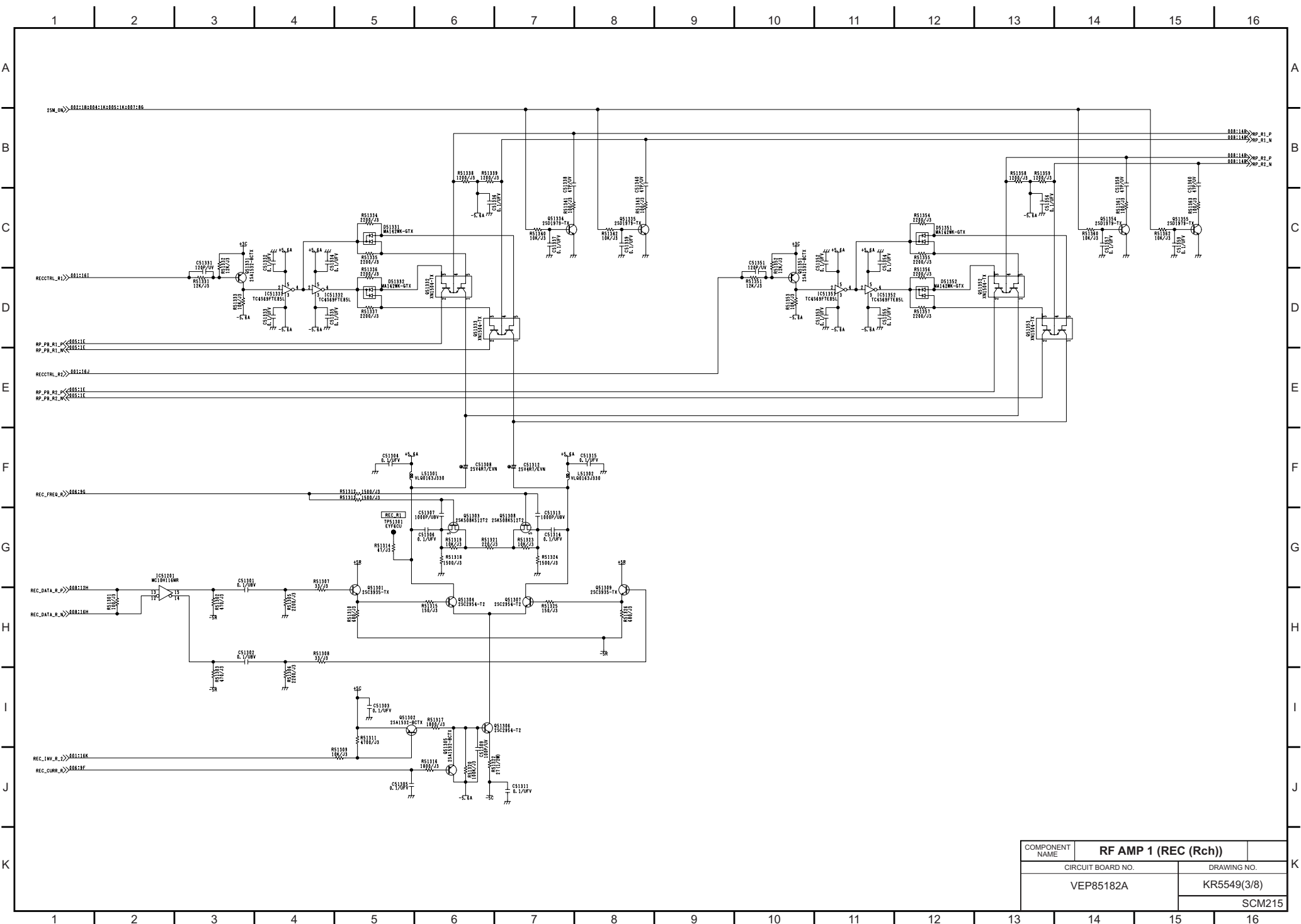




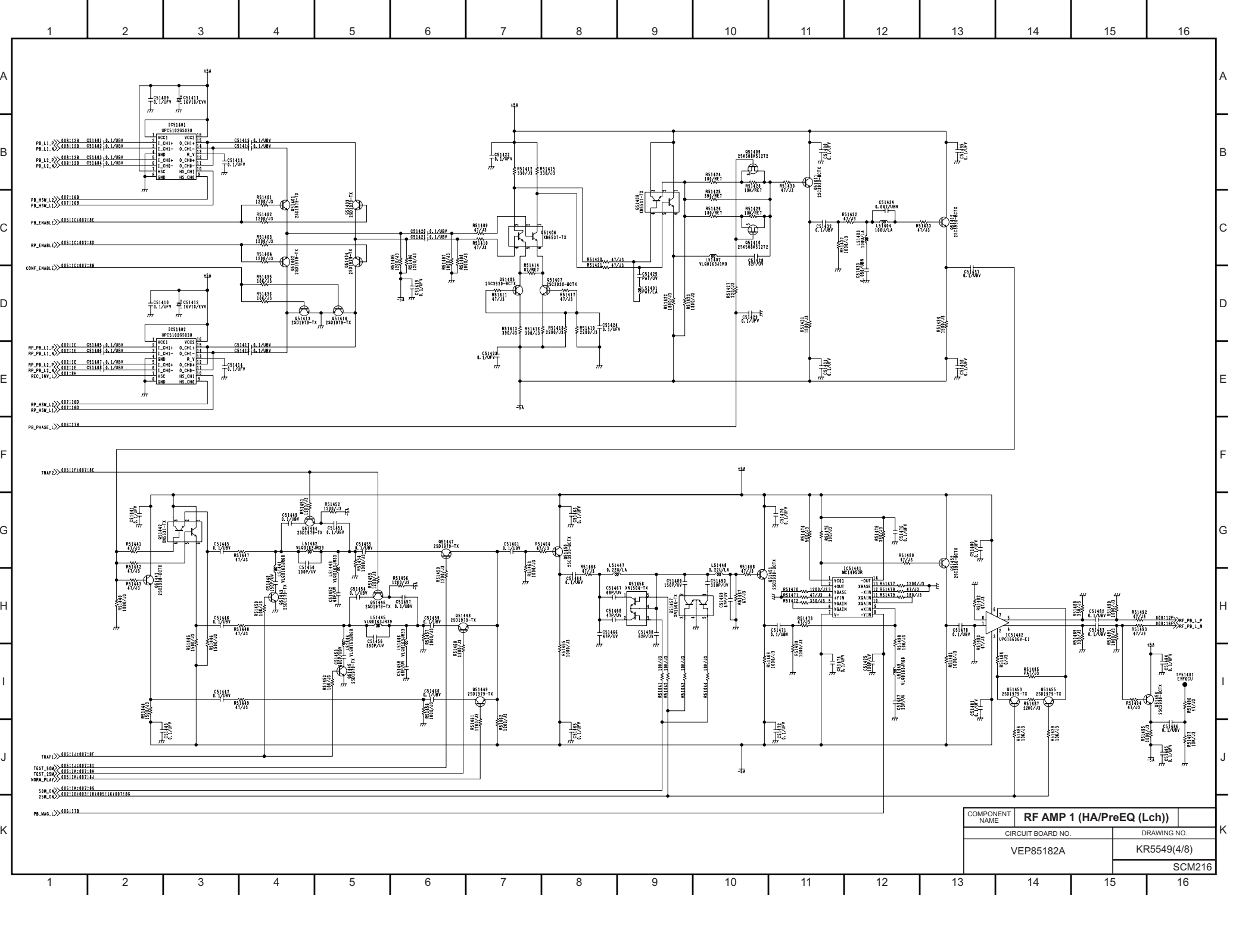


COMPONENT NAME	RF AMP 1 (REC (Lch))	
CIRCUIT BOARD NO.		DRAWING NO.
VEP85182A		KR5549(2/8)
		SCM214



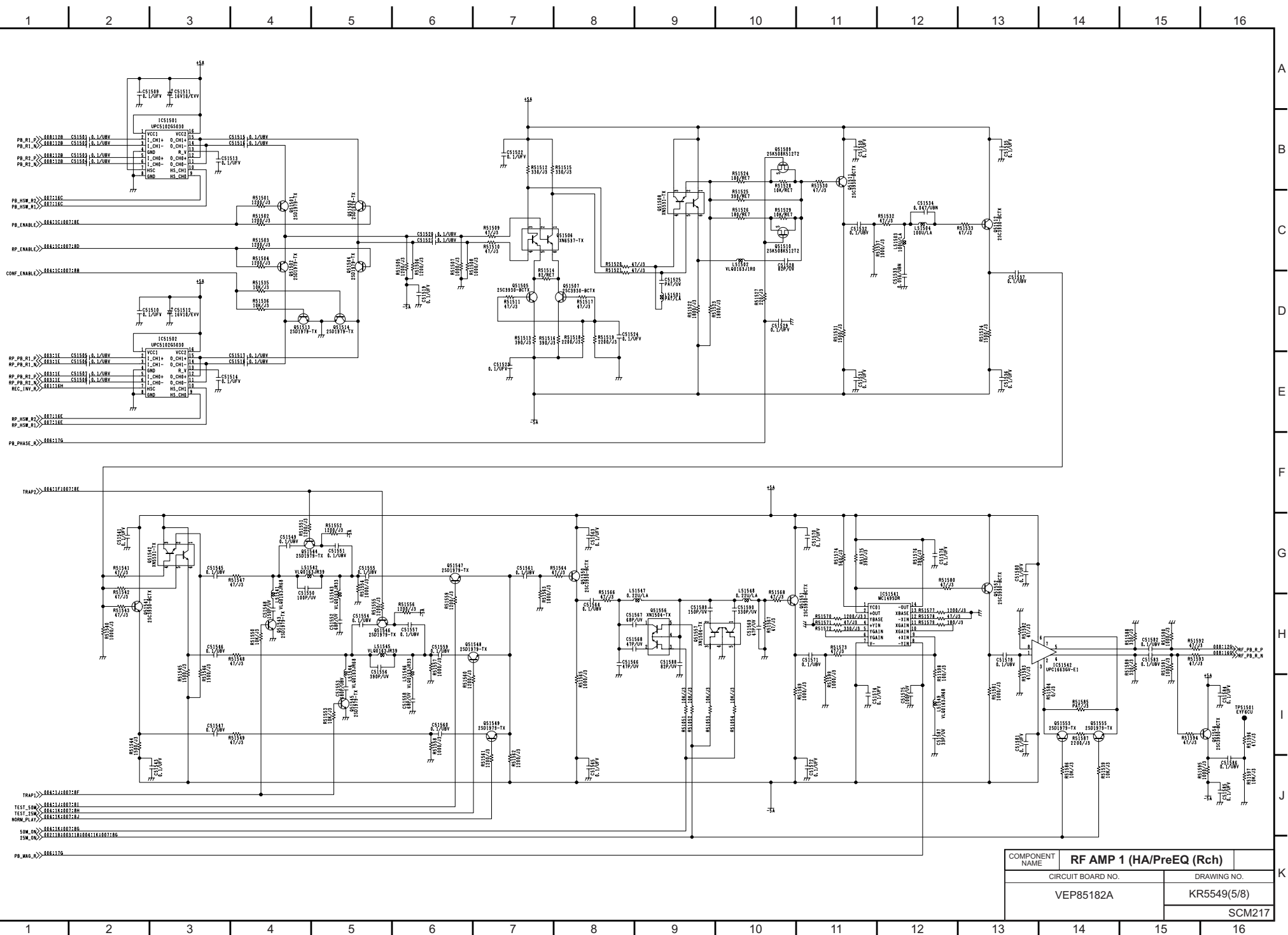






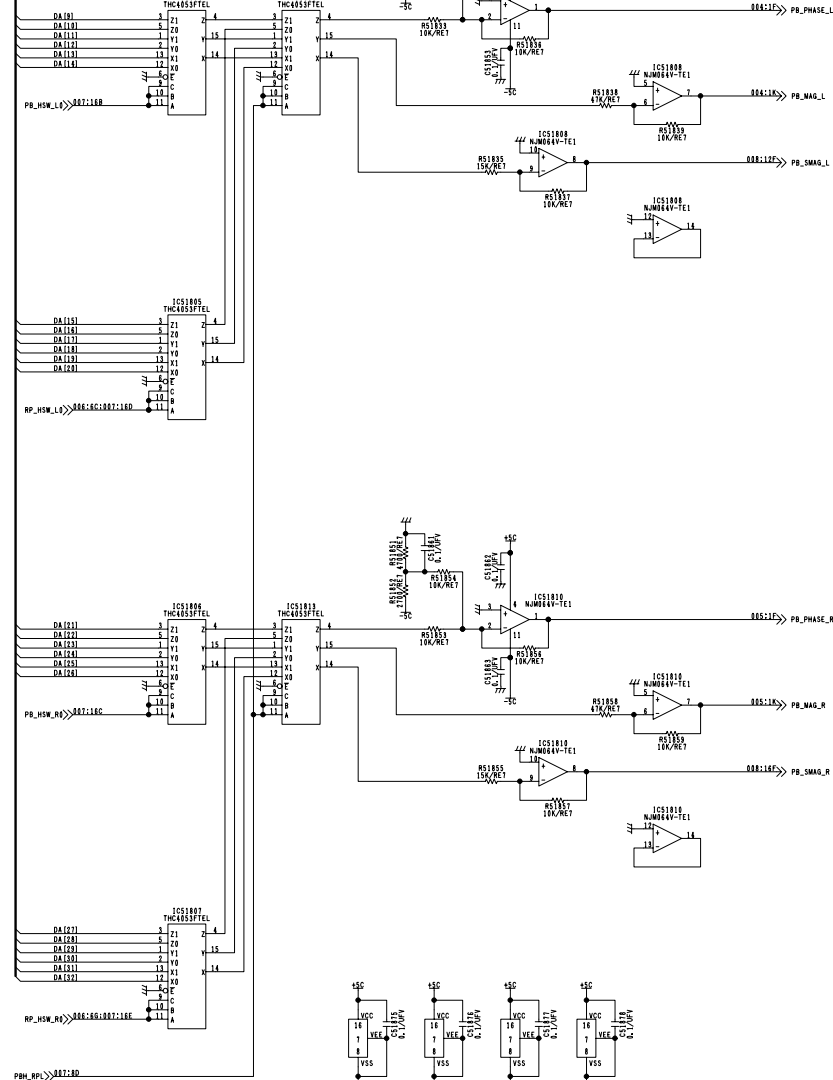
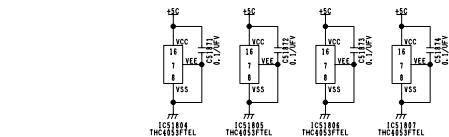
COMPONENT NAME	RF AMP 1 (HA/PreEQ (Lch))	
CIRCUIT BOARD NO.		DRAWING NO.
VEP85182A		KR5549(4/8)
SCM216		





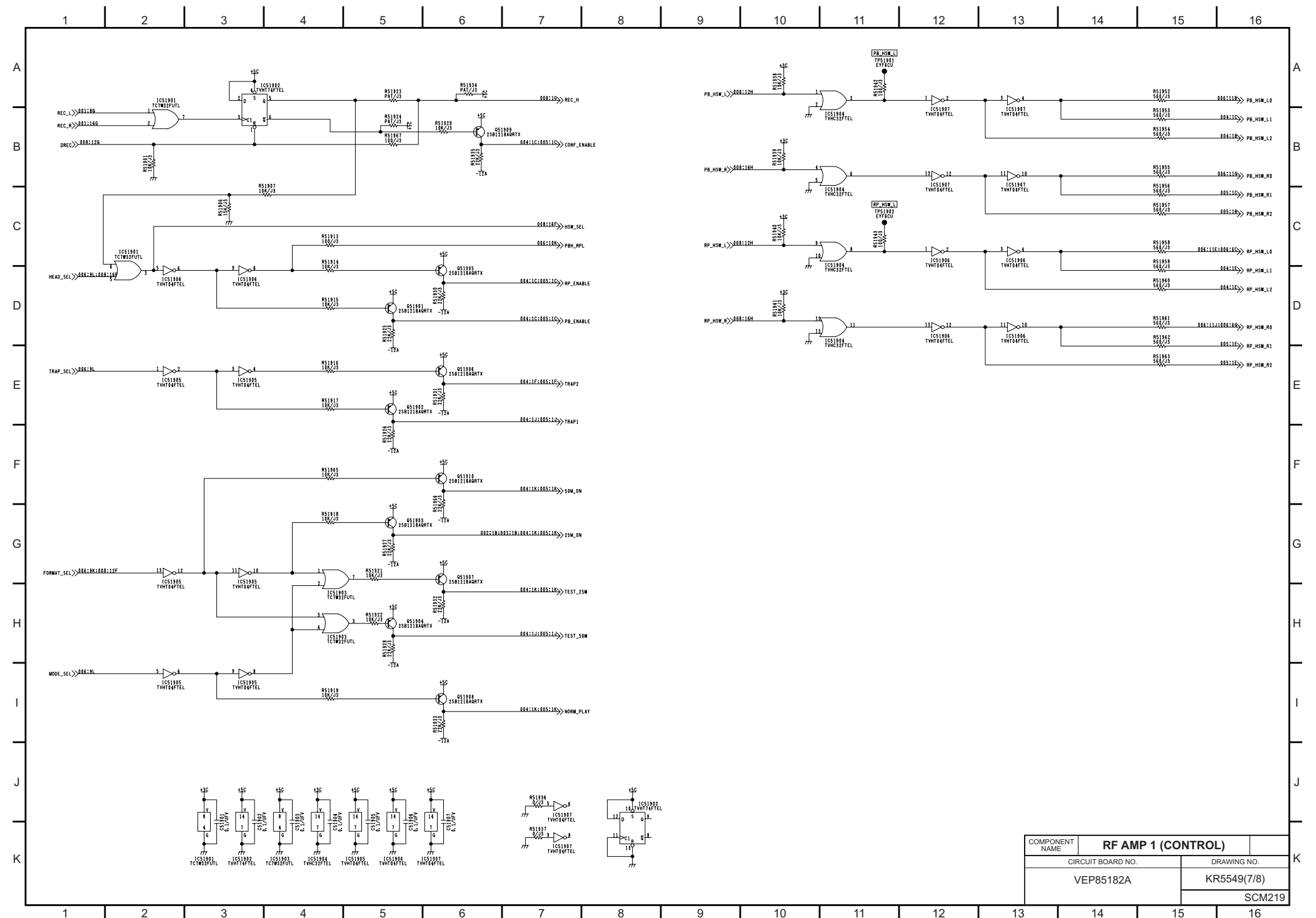
COMPONENT NAME	RF AMP 1 (HA/PreEQ (Rch)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85182A		KR5549(5/8)	
		SCM217	



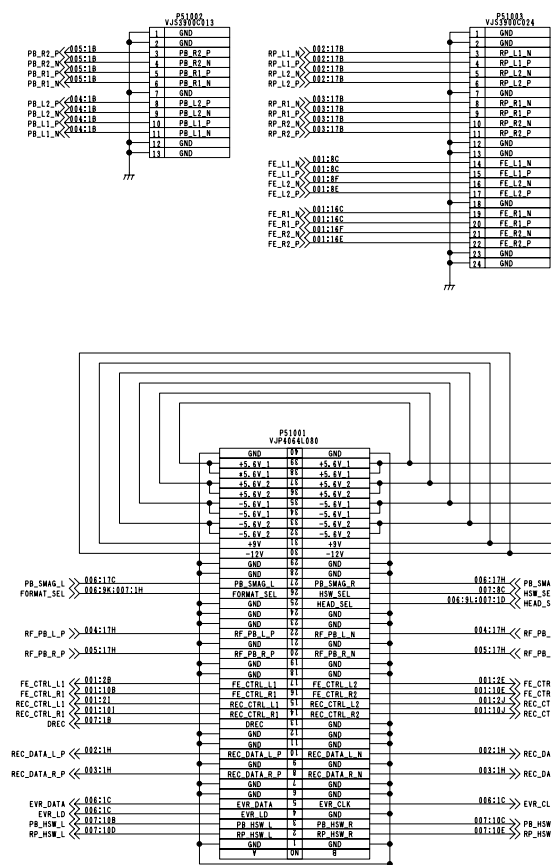


COMPONENT NAME	RF AMP 1 (EVR)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85182A		KR5549(6/8)	
		SCM218	



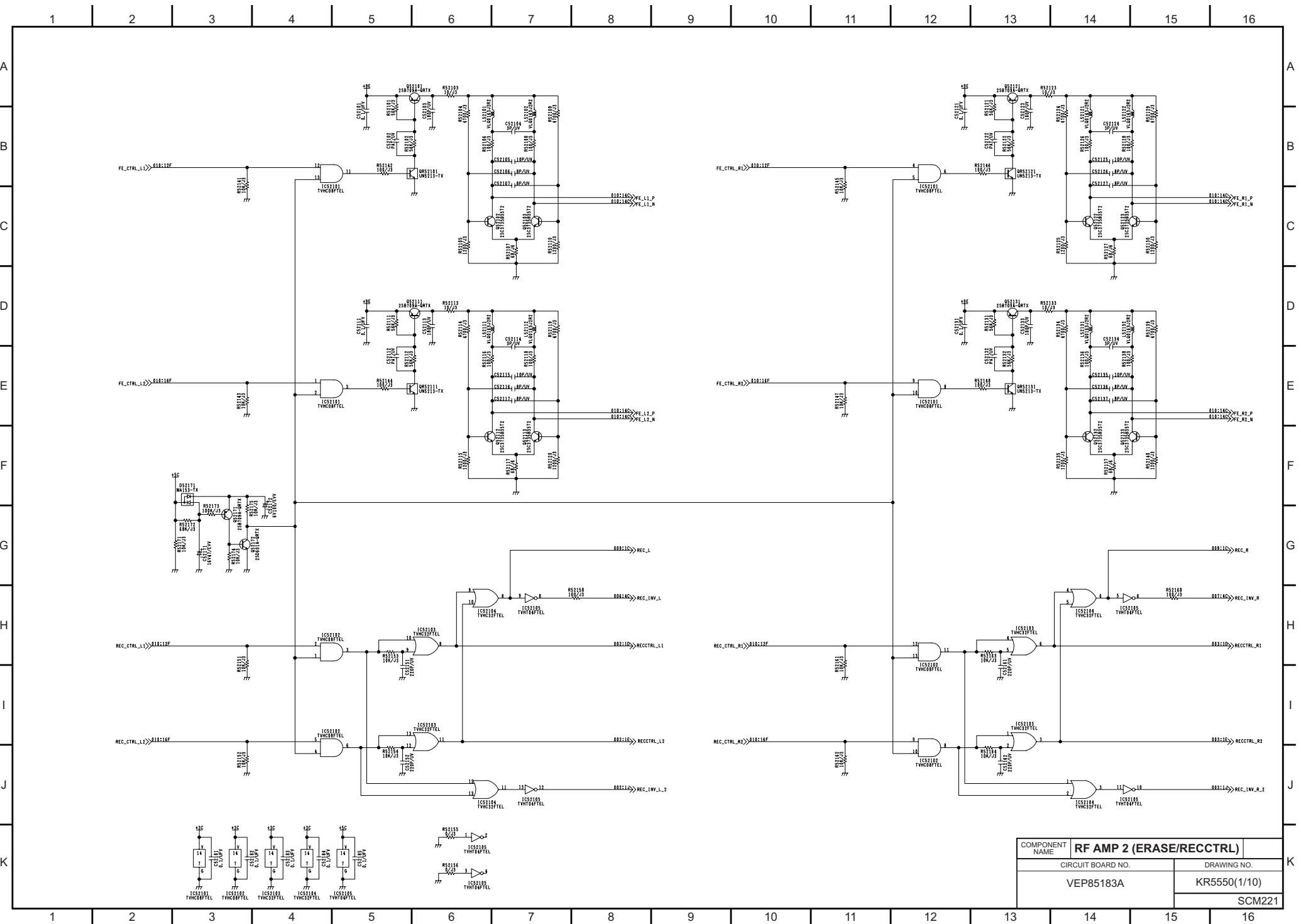






COMPONENT NAME	RF AMP 1 (POWER/CONNECTOR)	
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85182A	KR5549(8/8)	
	SCM220	





COMPONENT NAME	RF AMP 2 (ERASE/RECCTRL)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP85183A		KR5550(1/10)
SCM221		

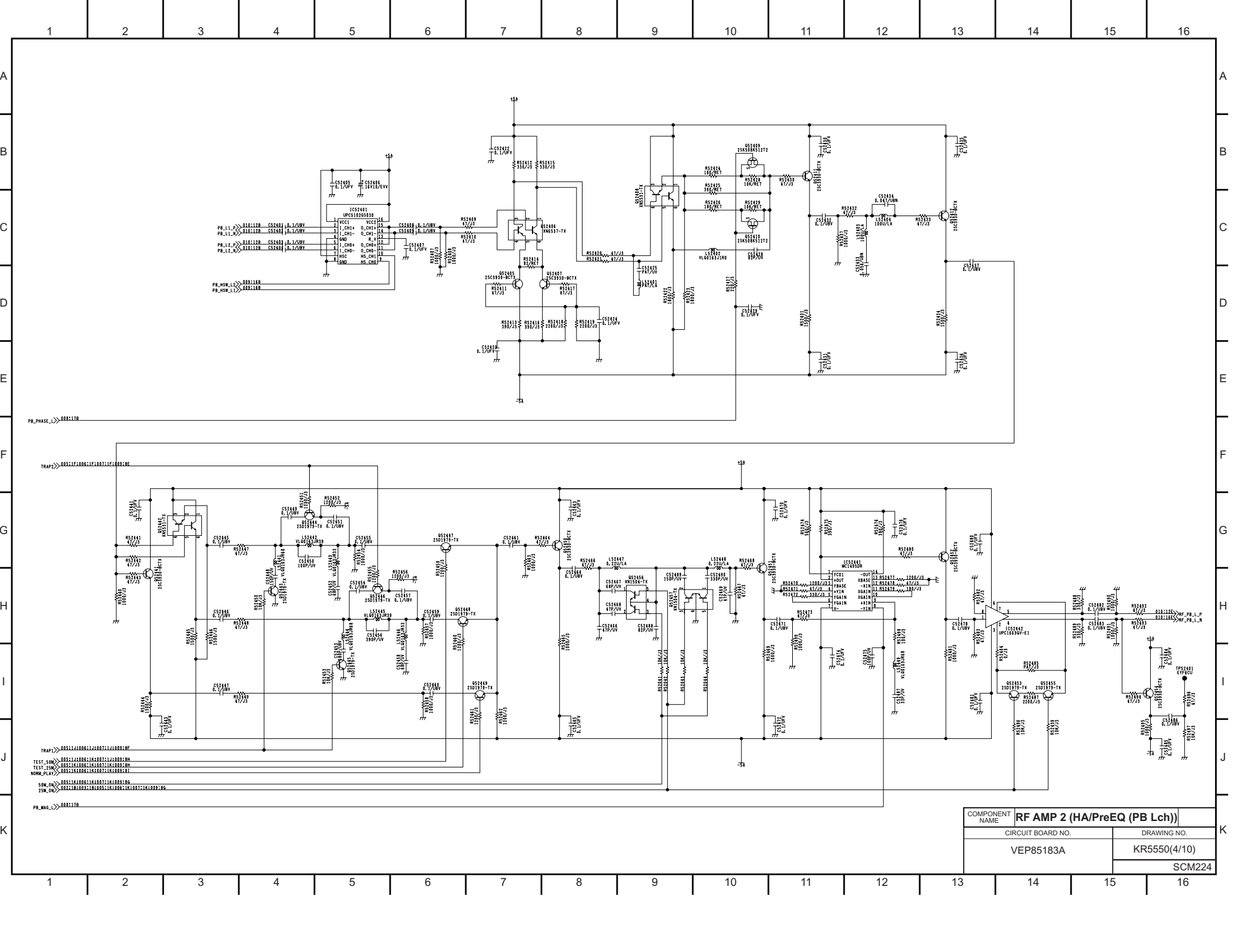






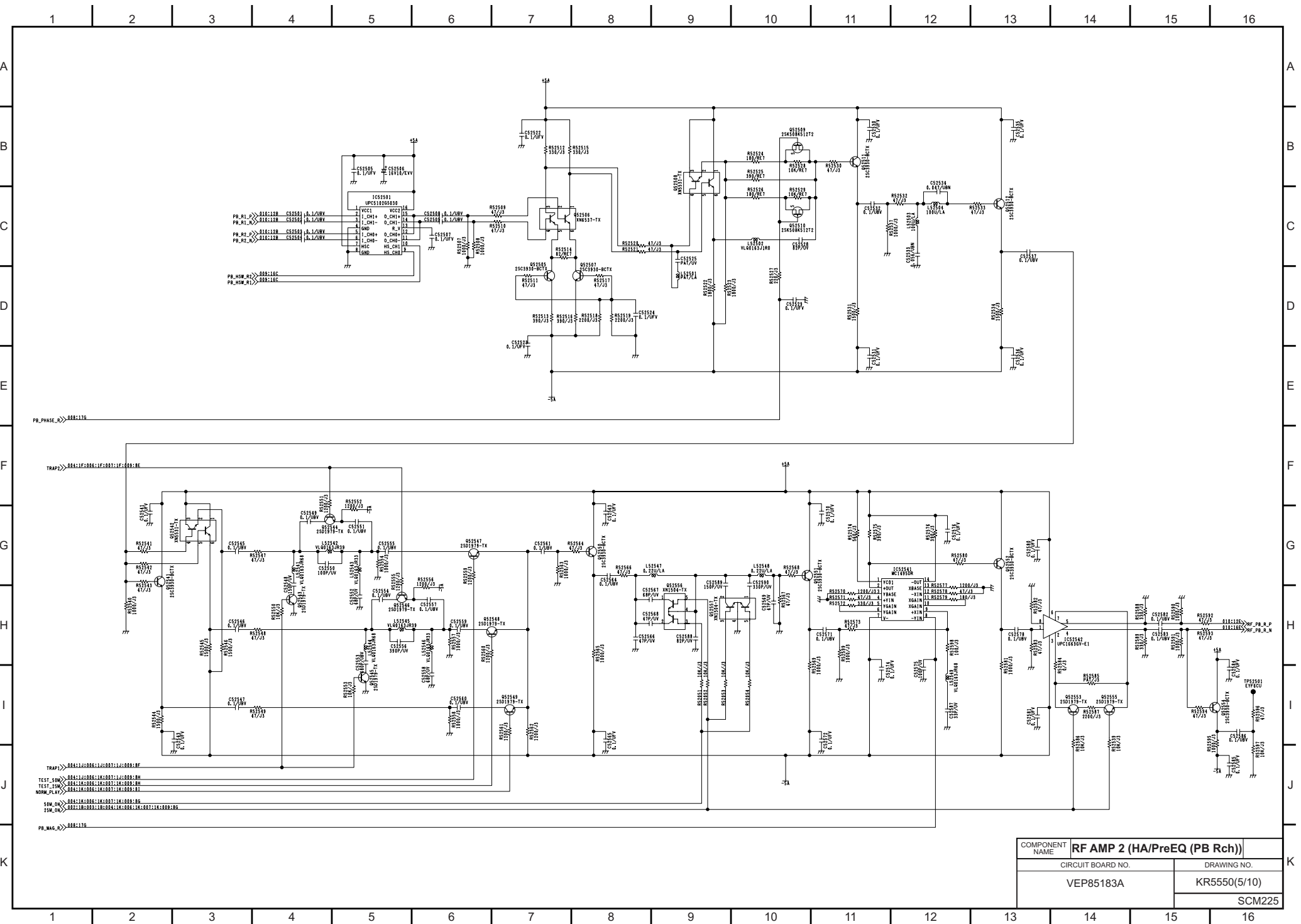






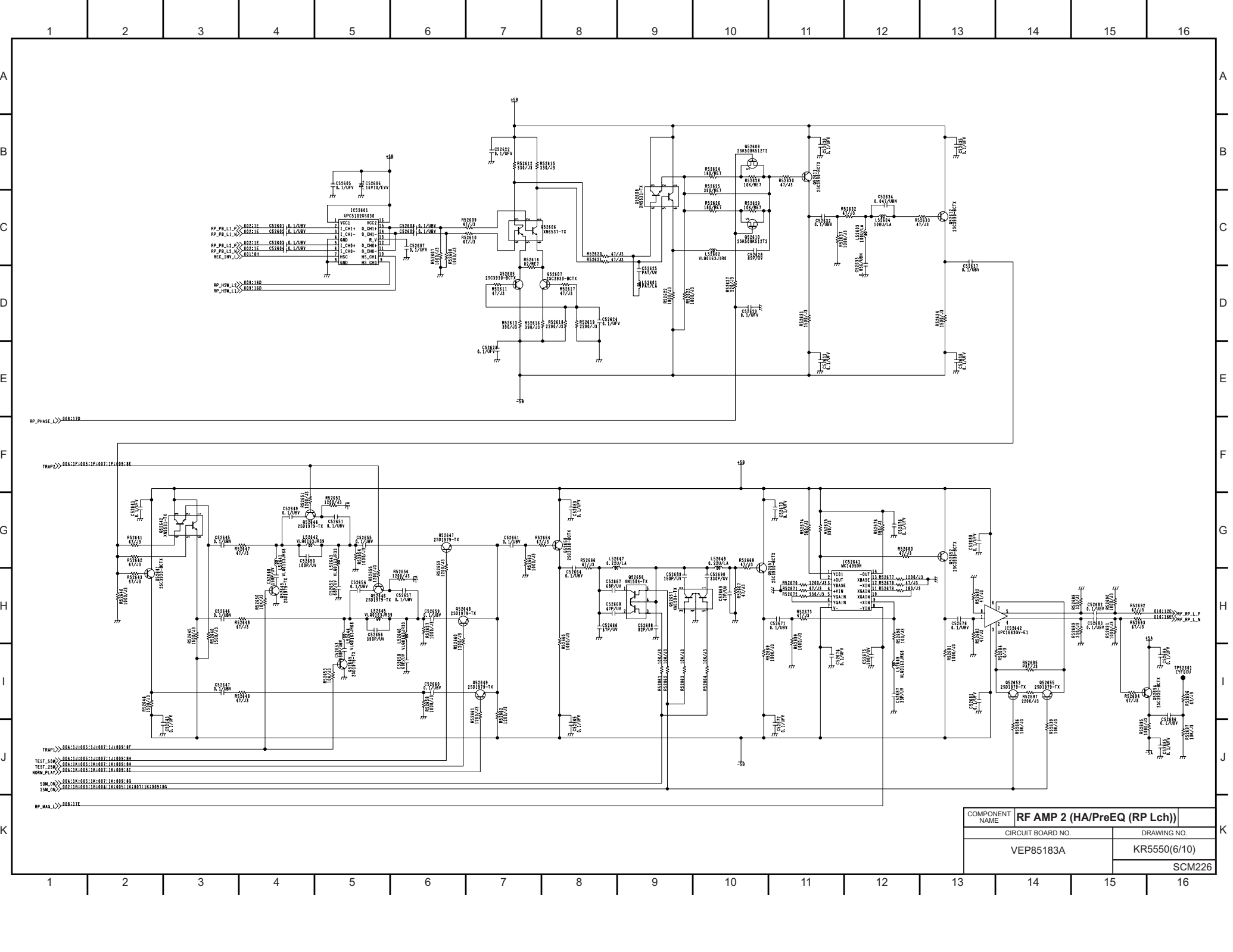
COMPONENT NAME		RF AMP 2 (HA/PreEQ (PB Lch))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85183A		KR5550(4/10)	
		SCM224	





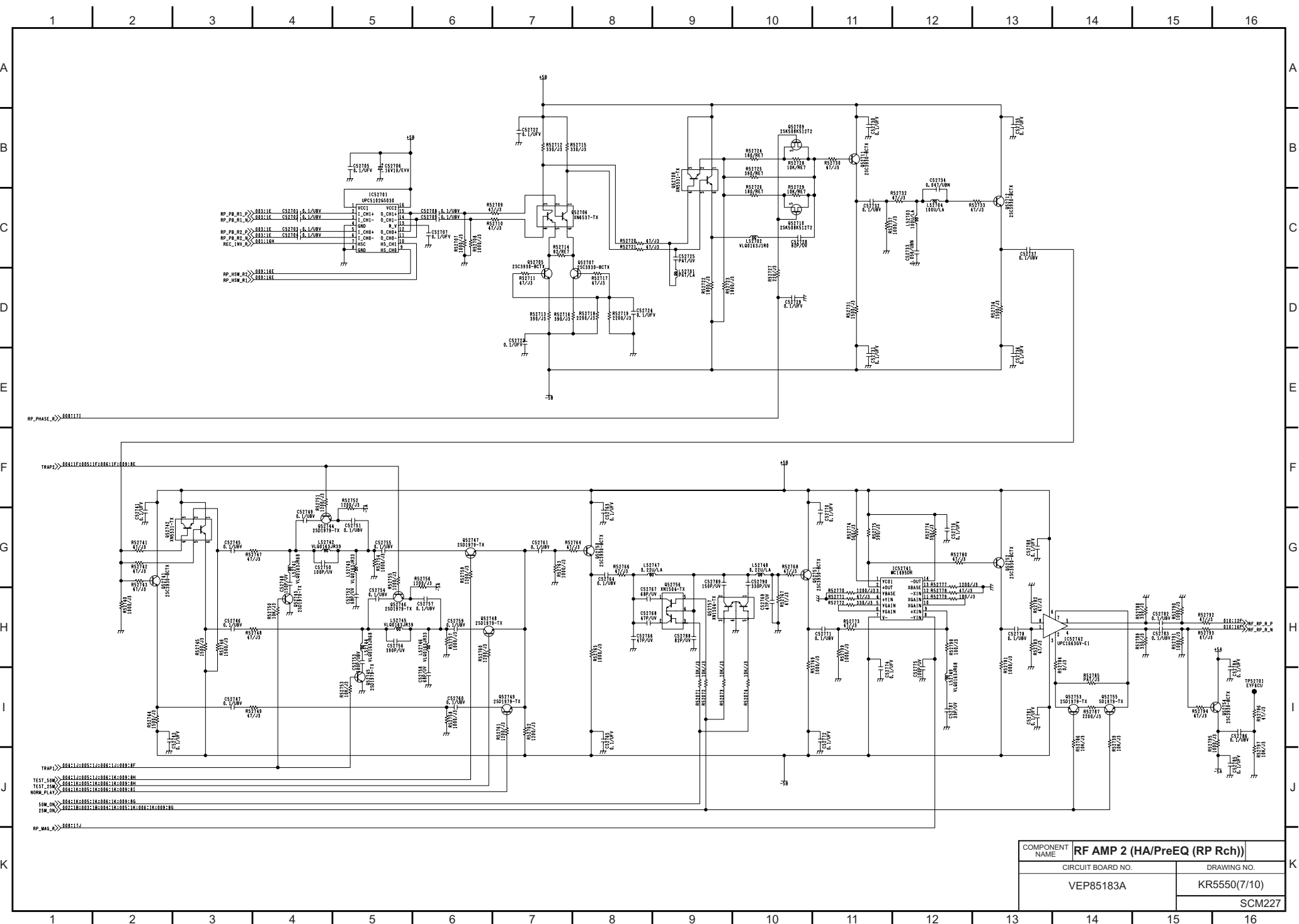
COMPONENT NAME		RF AMP 2 (HA/PreEQ (PB Rch))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85183A		KR5550(5/10)	
		SCM225	



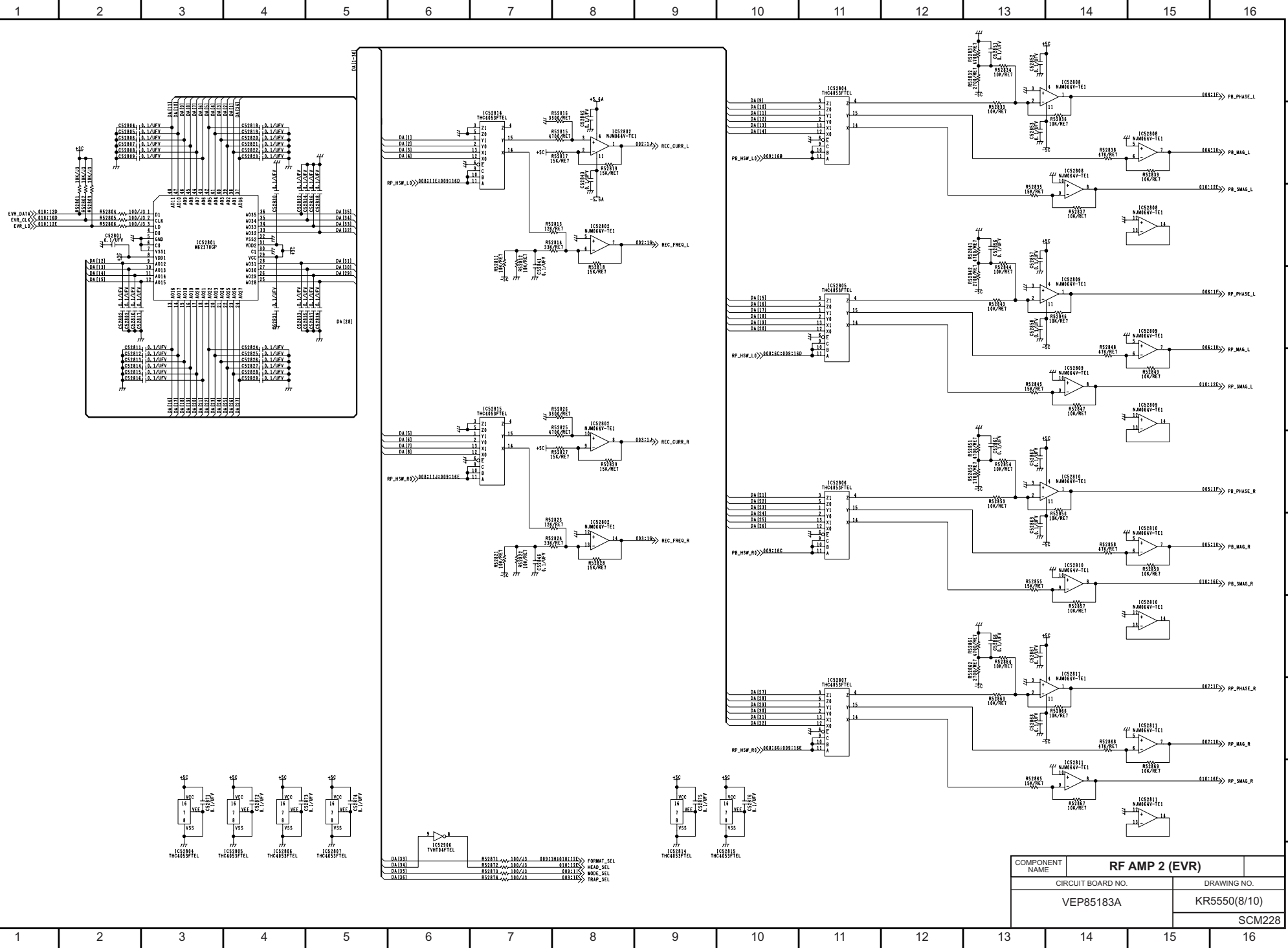


COMPONENT NAME		RF AMP 2 (HA/PreEQ (RP Lch))	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85183A		KR5550(6/10)	
		SCM226	

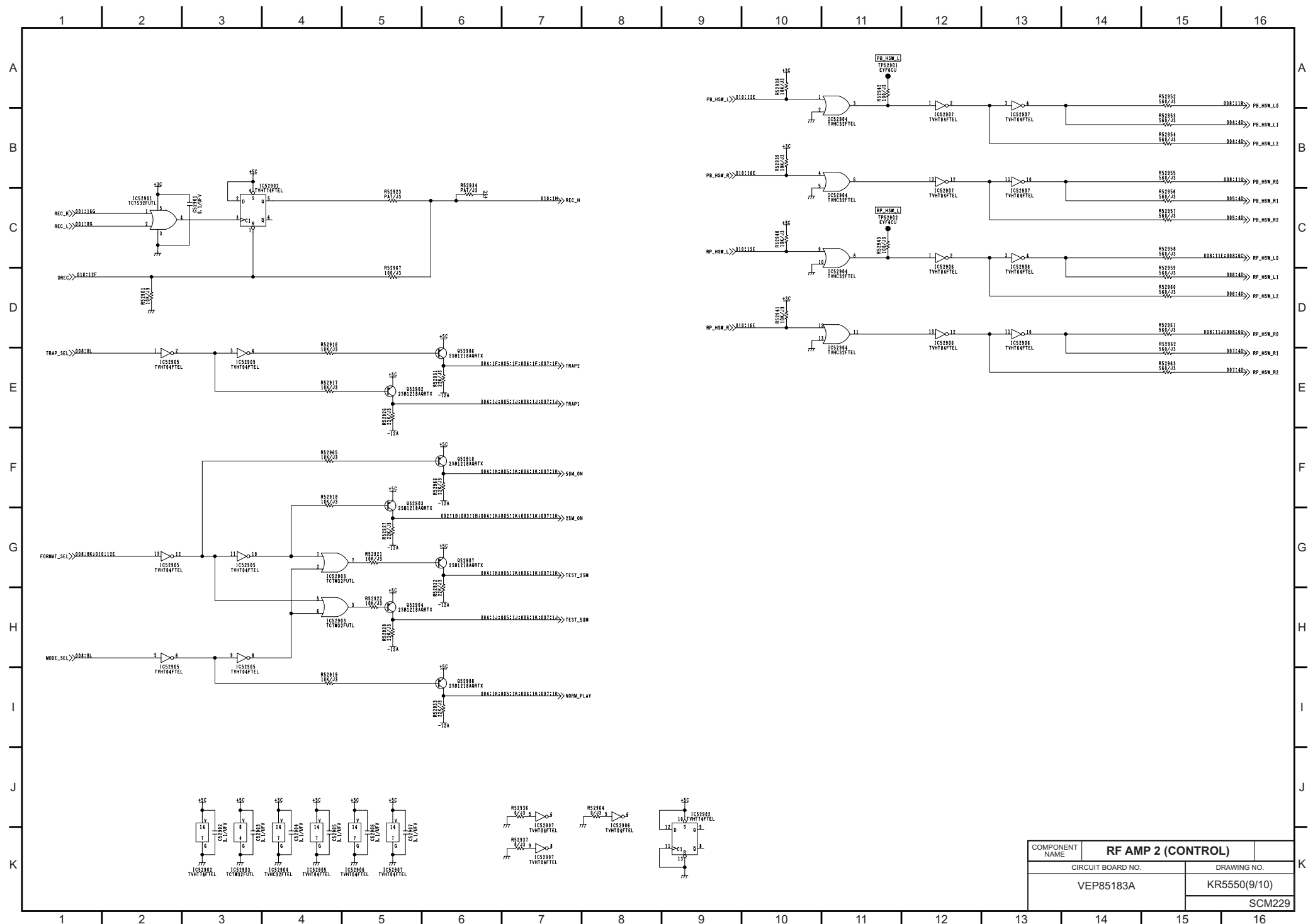




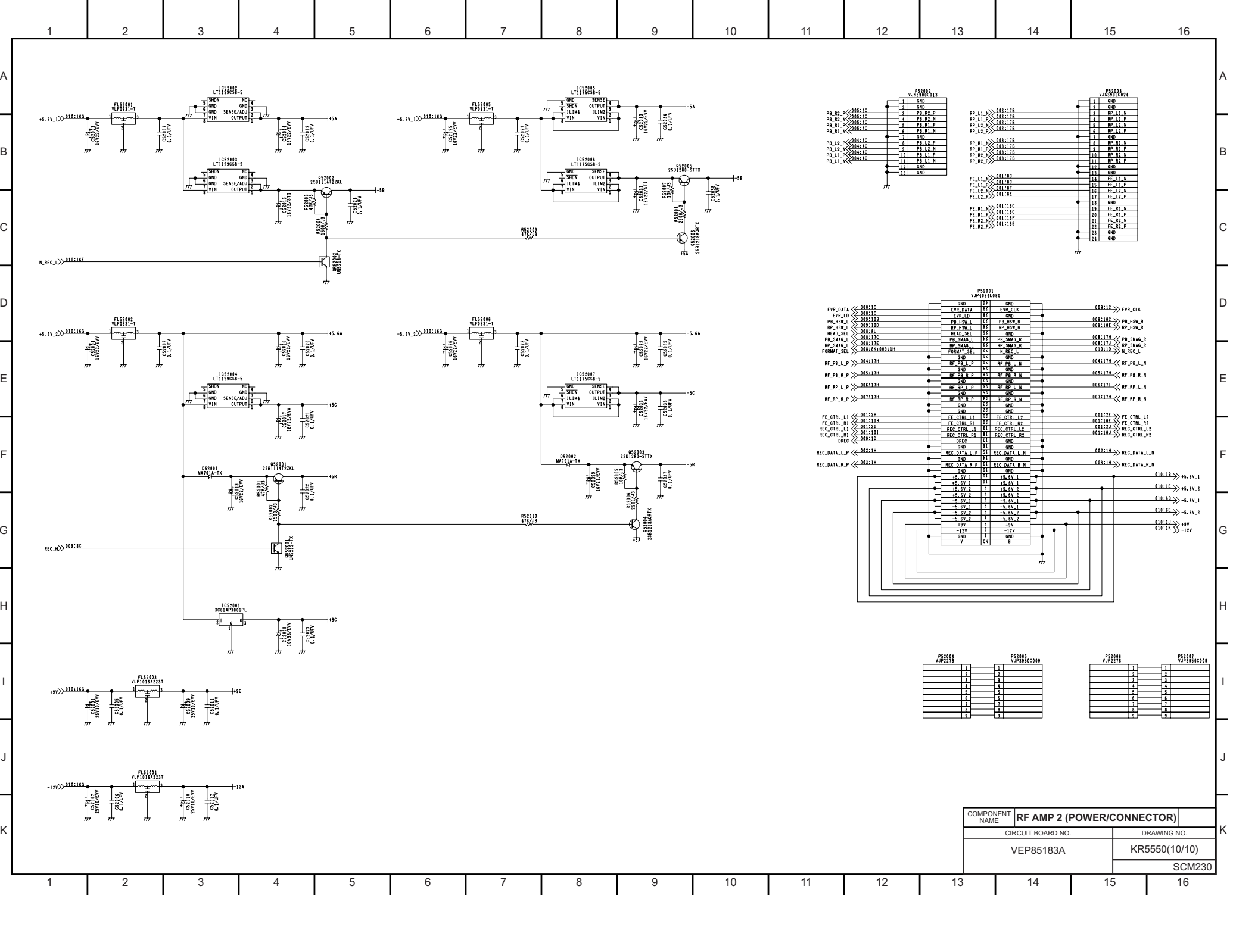






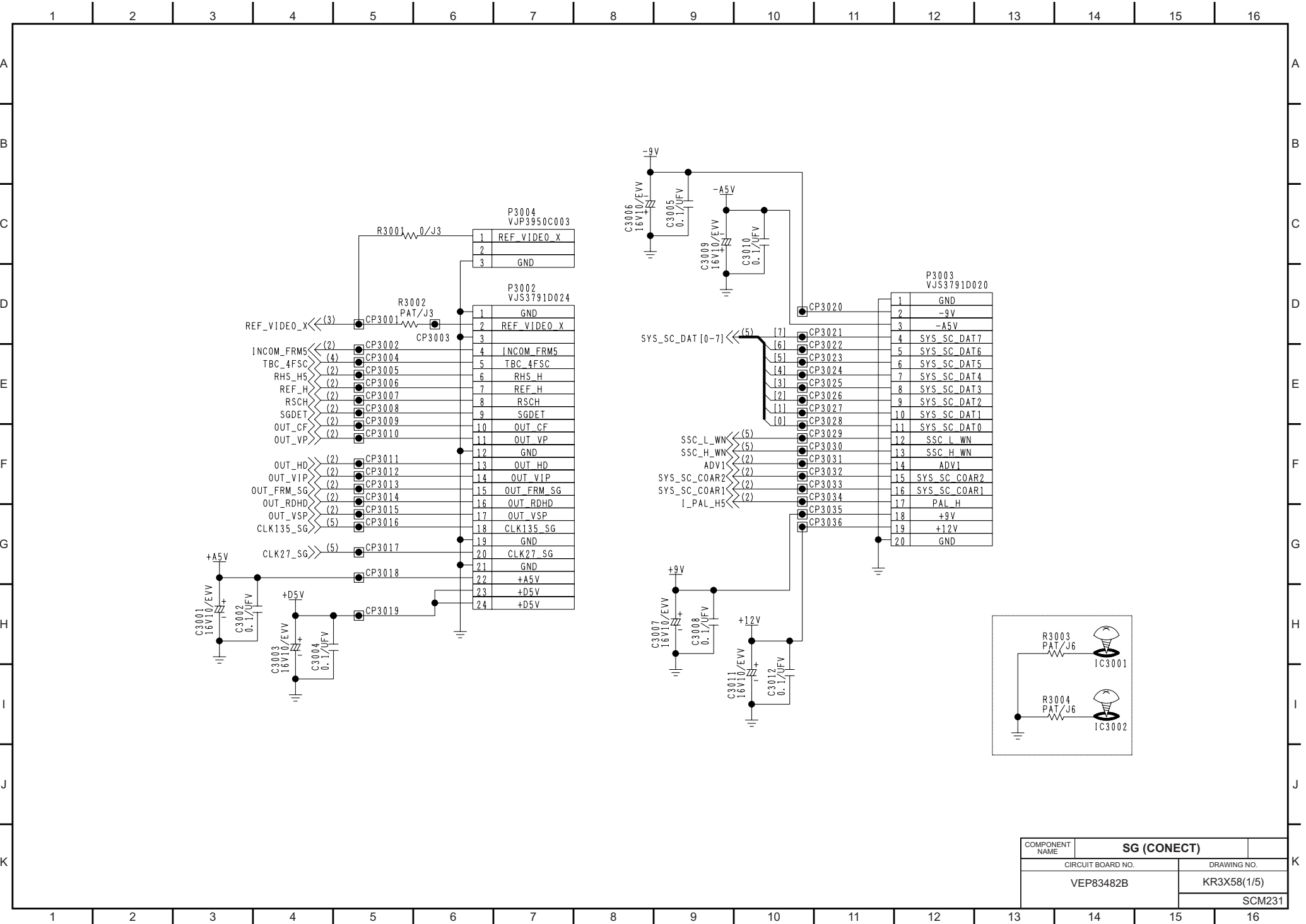






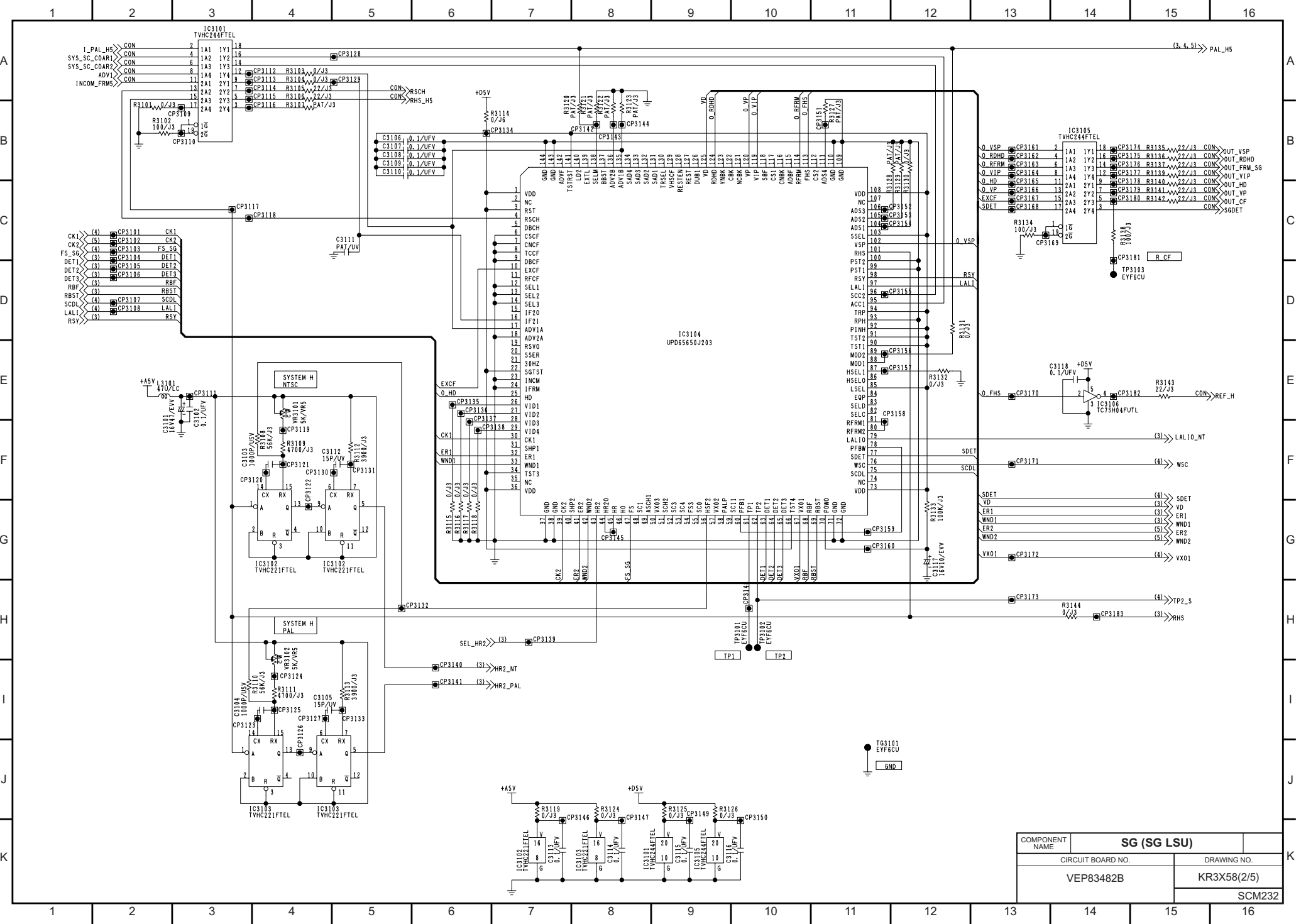
COMPONENT NAME	RF AMP 2 (POWER/CONNECTOR)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP855183A		KR5550(10/10)
		SCM230





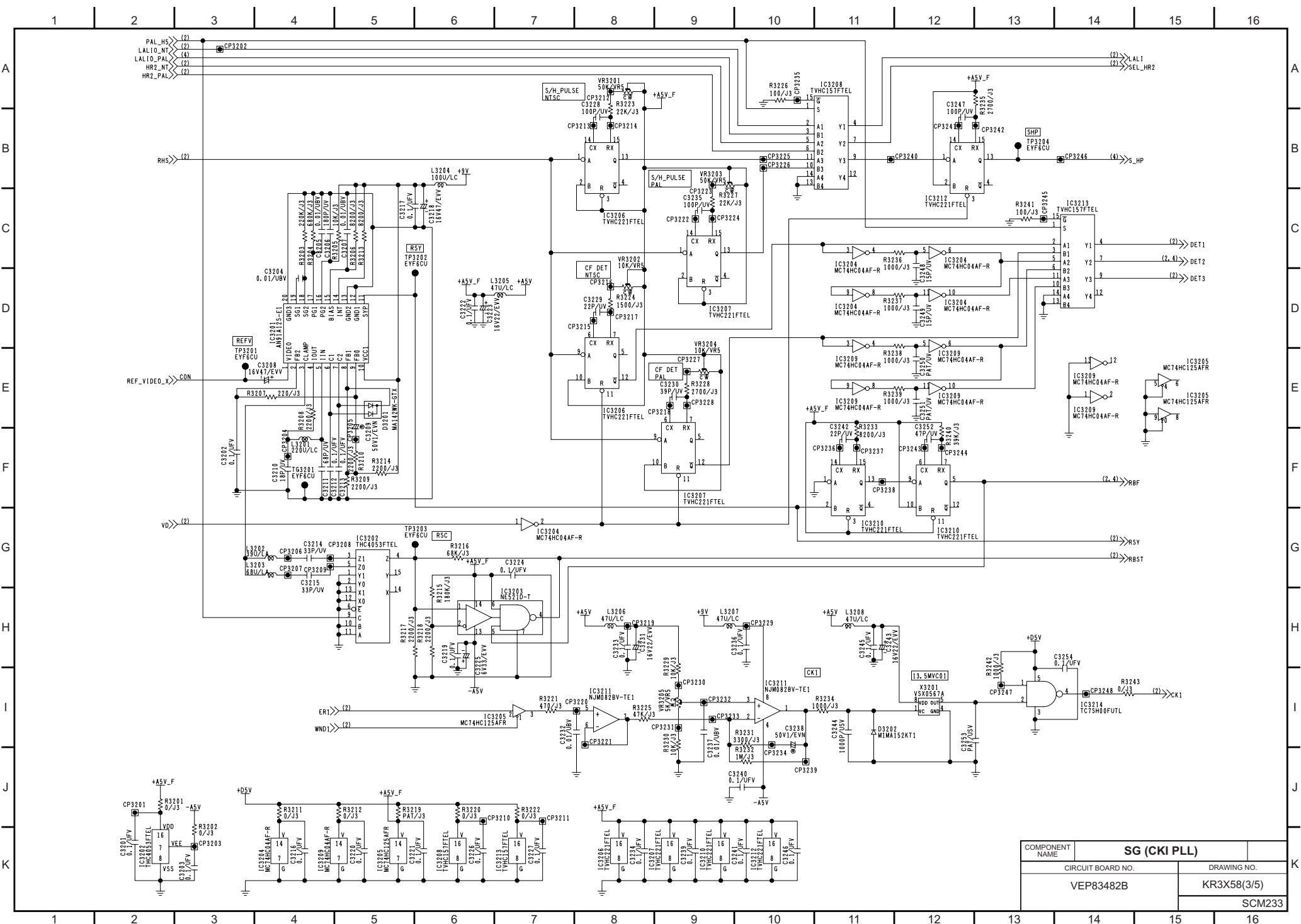
COMPONENT NAME		SG (CONECT)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83482B		KR3X58(1/5)	
		SCM231	





SG (SG LSU)	
CIRCUIT BOARD NO.	DRAWING NO.
VEP83482B	KR3X58(2/5)
SCM232	

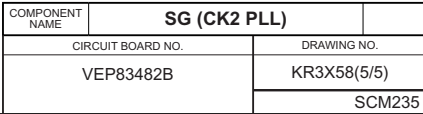




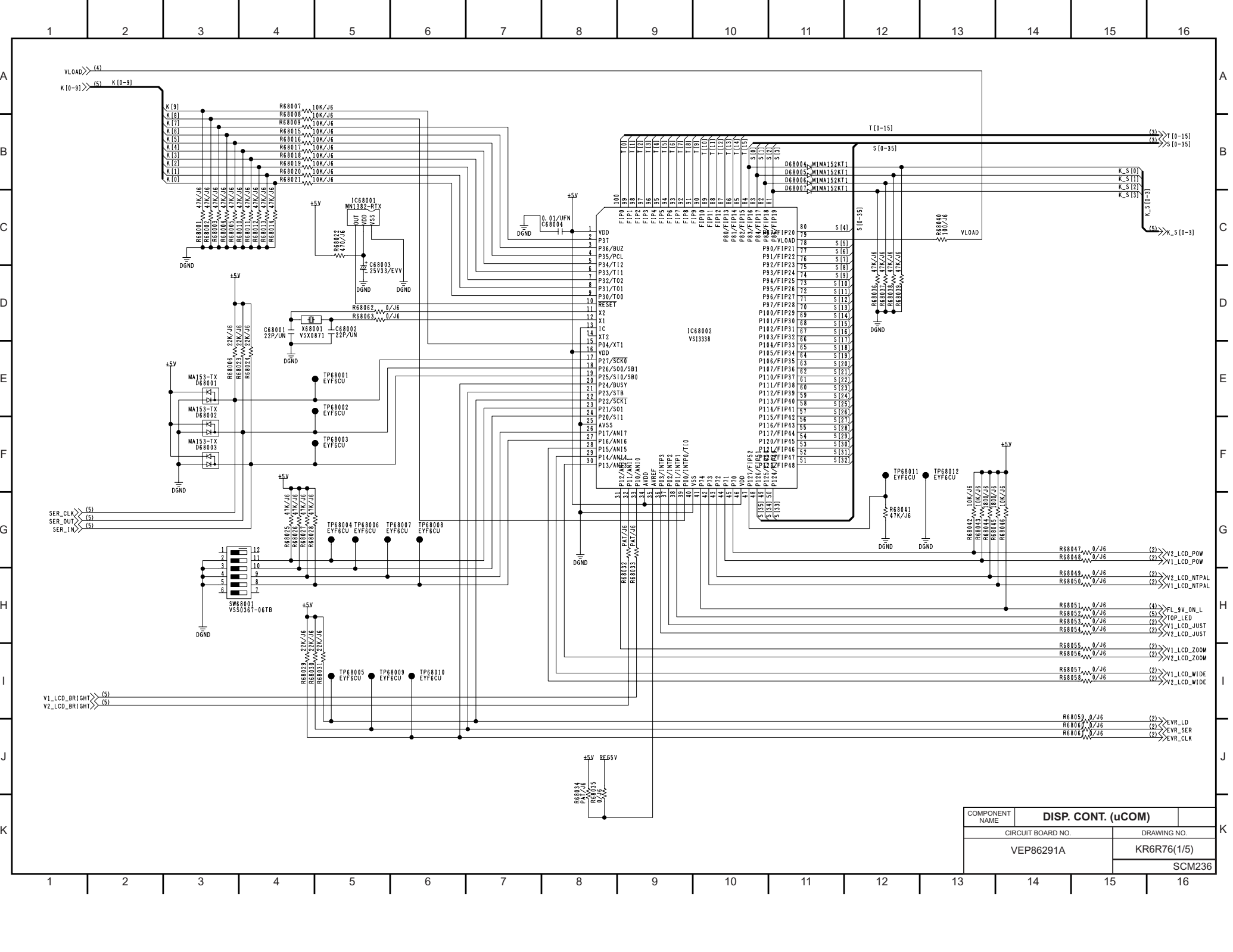






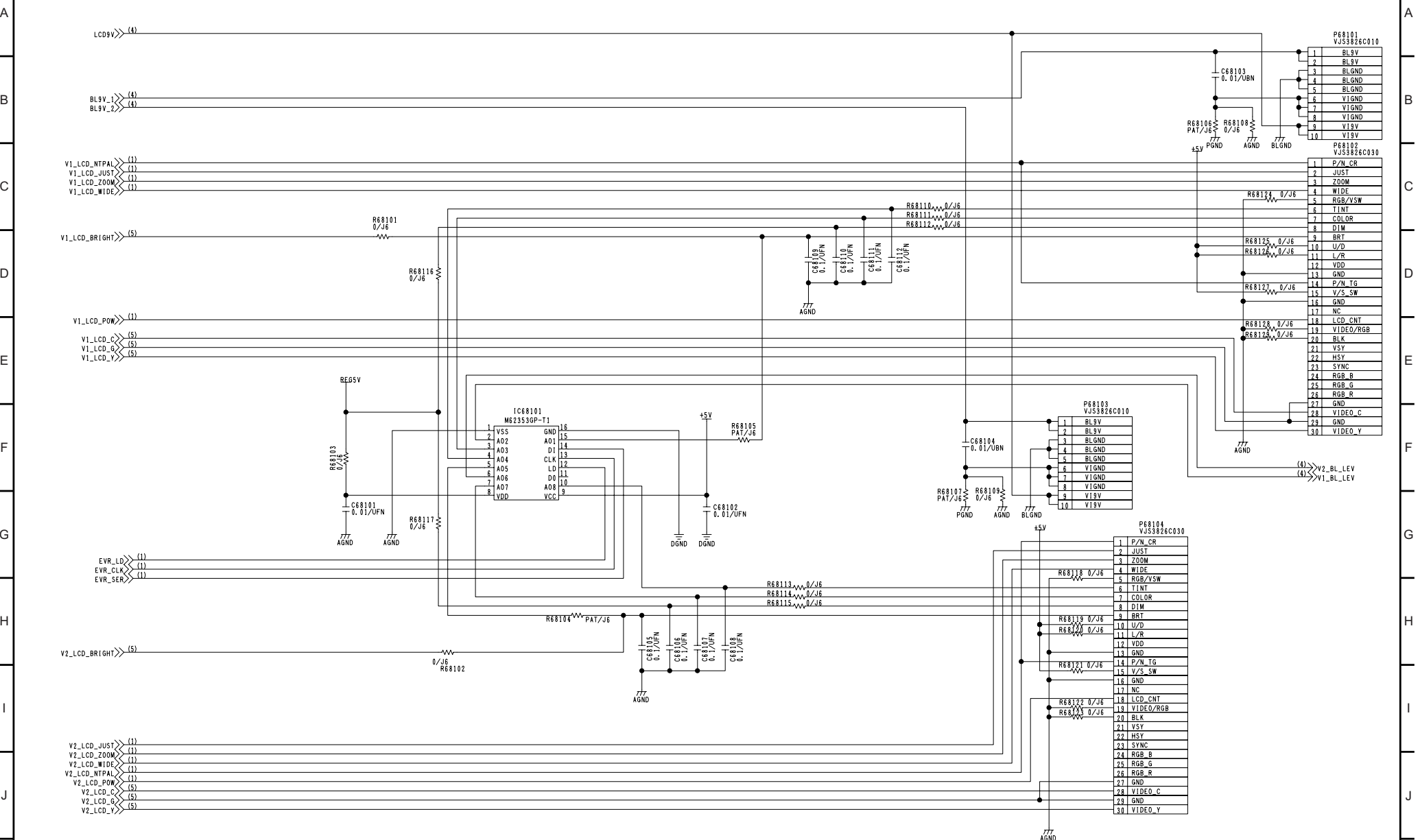






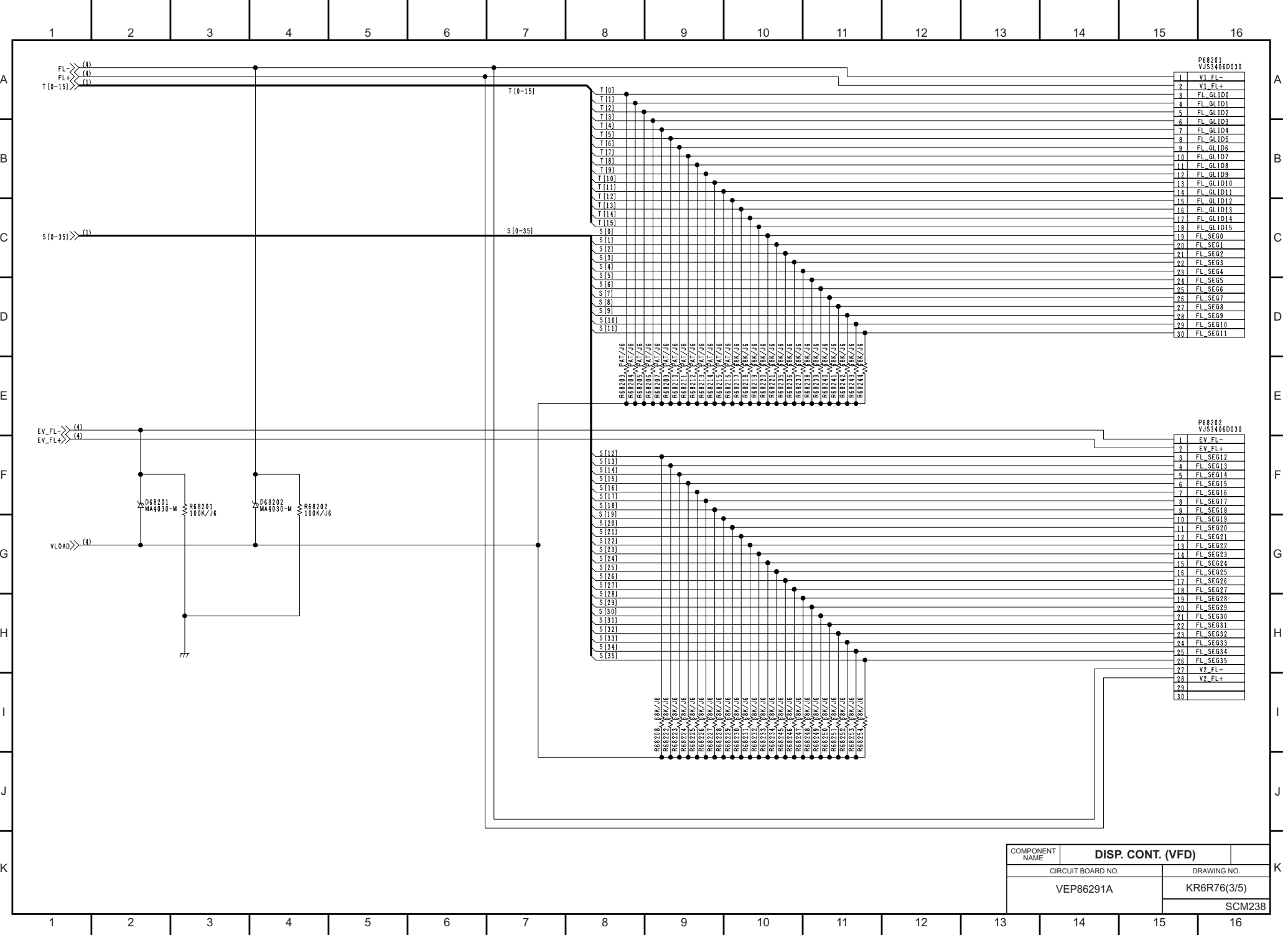
COMPONENT NAME	DISP. CONT. (uCOM)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP6R291A		KR6R76(1/5)
		SCM236





COMPONENT NAME		DISP. CONT. (LCD)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86291A		KR6R76(2/5)	
		SCM237	





P68201  
VJS3406D030

1	V1 FL-
2	V1 FL+
3	FL_GLID0
4	FL_GLID1
5	FL_GLID2
6	FL_GLID3
7	FL_GLID4
8	FL_GLID5
9	FL_GLID6
10	FL_GLID7
11	FL_GLID8
12	FL_GLID9
13	FL_GLID10
14	FL_GLID11
15	FL_GLID12
16	FL_GLID13
17	FL_GLID14
18	FL_GLID15
19	FL_SEG0
20	FL_SEG1
21	FL_SEG2
22	FL_SEG3
23	FL_SEG4
24	FL_SEG5
25	FL_SEG6
26	FL_SEG7
27	FL_SEG8
28	FL_SEG9
29	FL_SEG10
30	FL_SEG11

P68202  
VJS3406D030

1	EV FL-
2	EV FL+
3	FL_SEG12
4	FL_SEG13
5	FL_SEG14
6	FL_SEG15
7	FL_SEG16
8	FL_SEG17
9	FL_SEG18
10	FL_SEG19
11	FL_SEG20
12	FL_SEG21
13	FL_SEG22
14	FL_SEG23
15	FL_SEG24
16	FL_SEG25
17	FL_SEG26
18	FL_SEG27
19	FL_SEG28
20	FL_SEG29
21	FL_SEG30
22	FL_SEG31
23	FL_SEG32
24	FL_SEG33
25	FL_SEG34
26	FL_SEG35
27	V2 FL-
28	V2 FL+
29	
30	

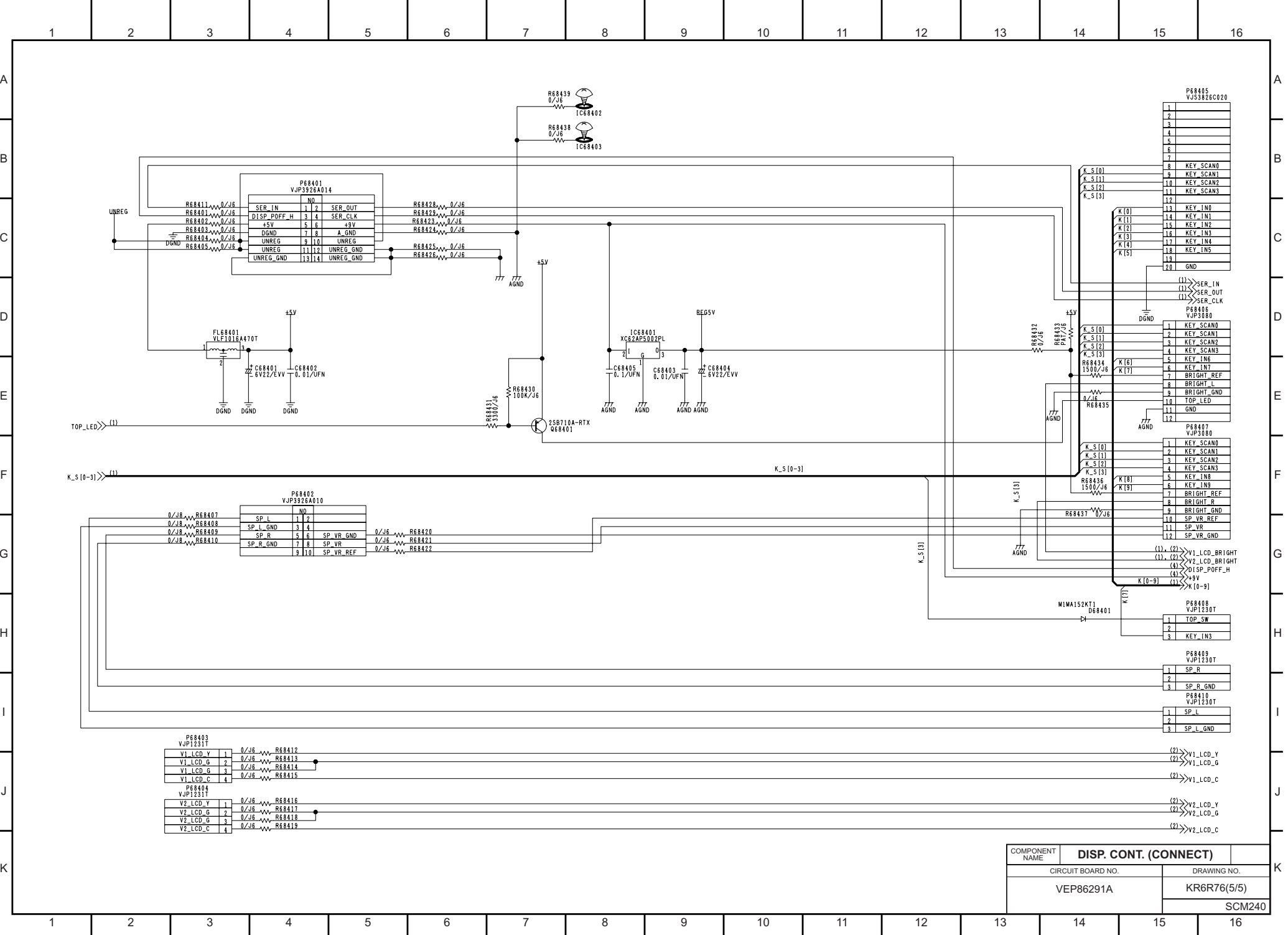
COMPONENT NAME	DISP. CONT. (VFD)	
	CIRCUIT BOARD NO.	DRAWING NO.
	VEP86291A	KR6R76(3/5)
		SCM238





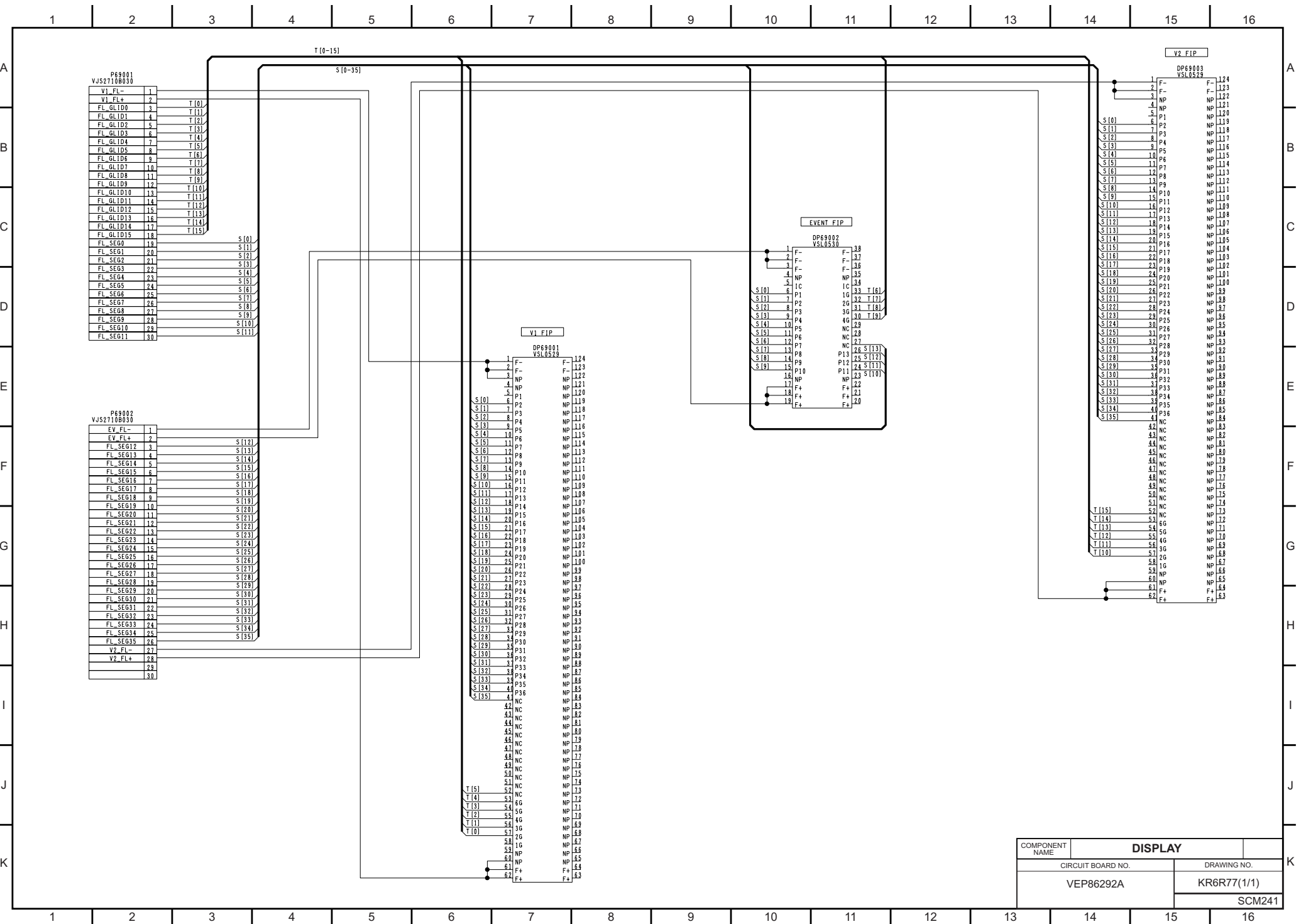
COMPONENT NAME	DISP. CONT. (POWER)		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86291A		KR6R76(4/5)	
		SCM239	





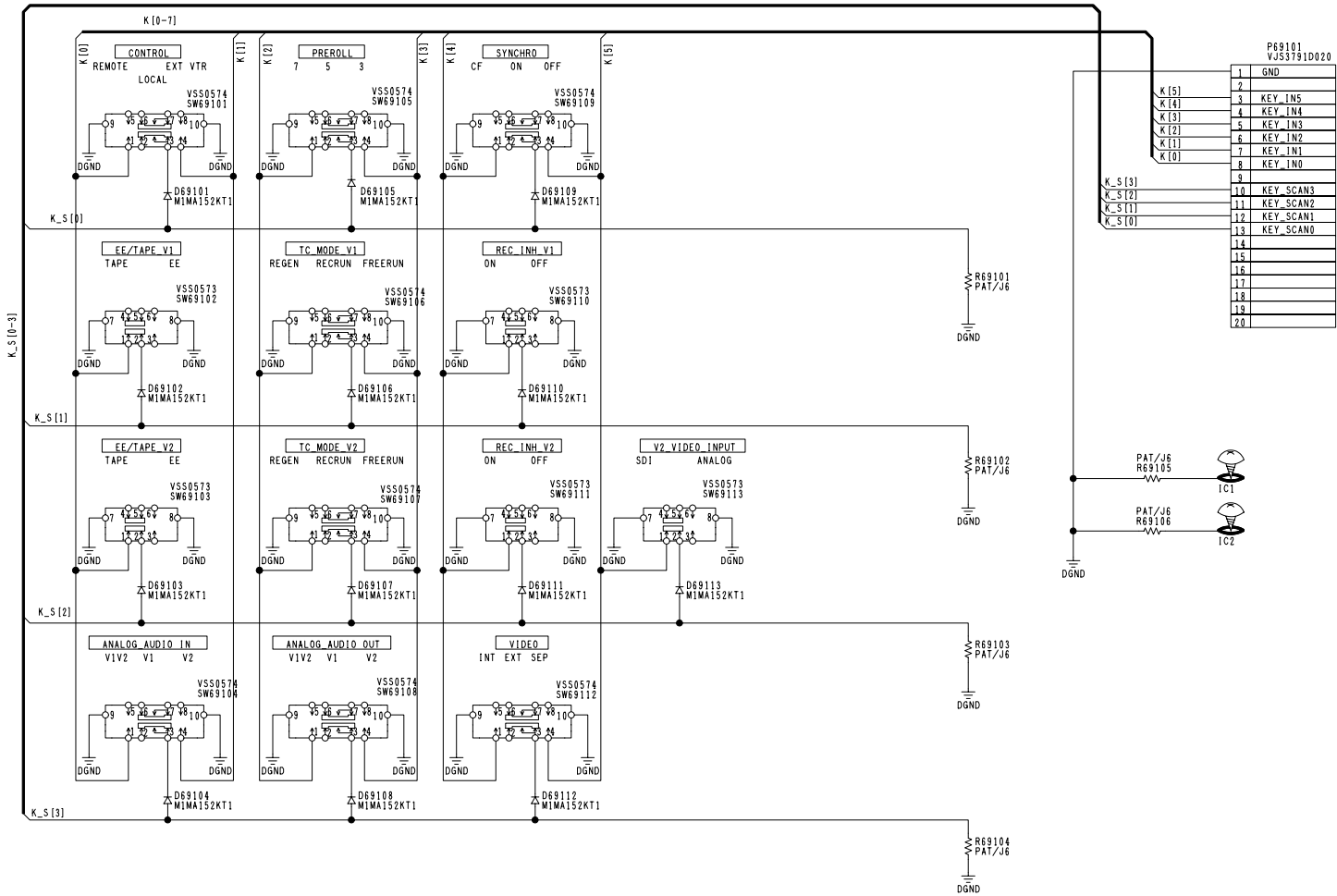
COMPONENT NAME	DISP. CONT. (CONNECT)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP6R76(5/5)		KR6R76(5/5)
		SCM240





COMPONENT NAME		DISPLAY	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86292A		KR6R77(1/1)	
		SCM241	



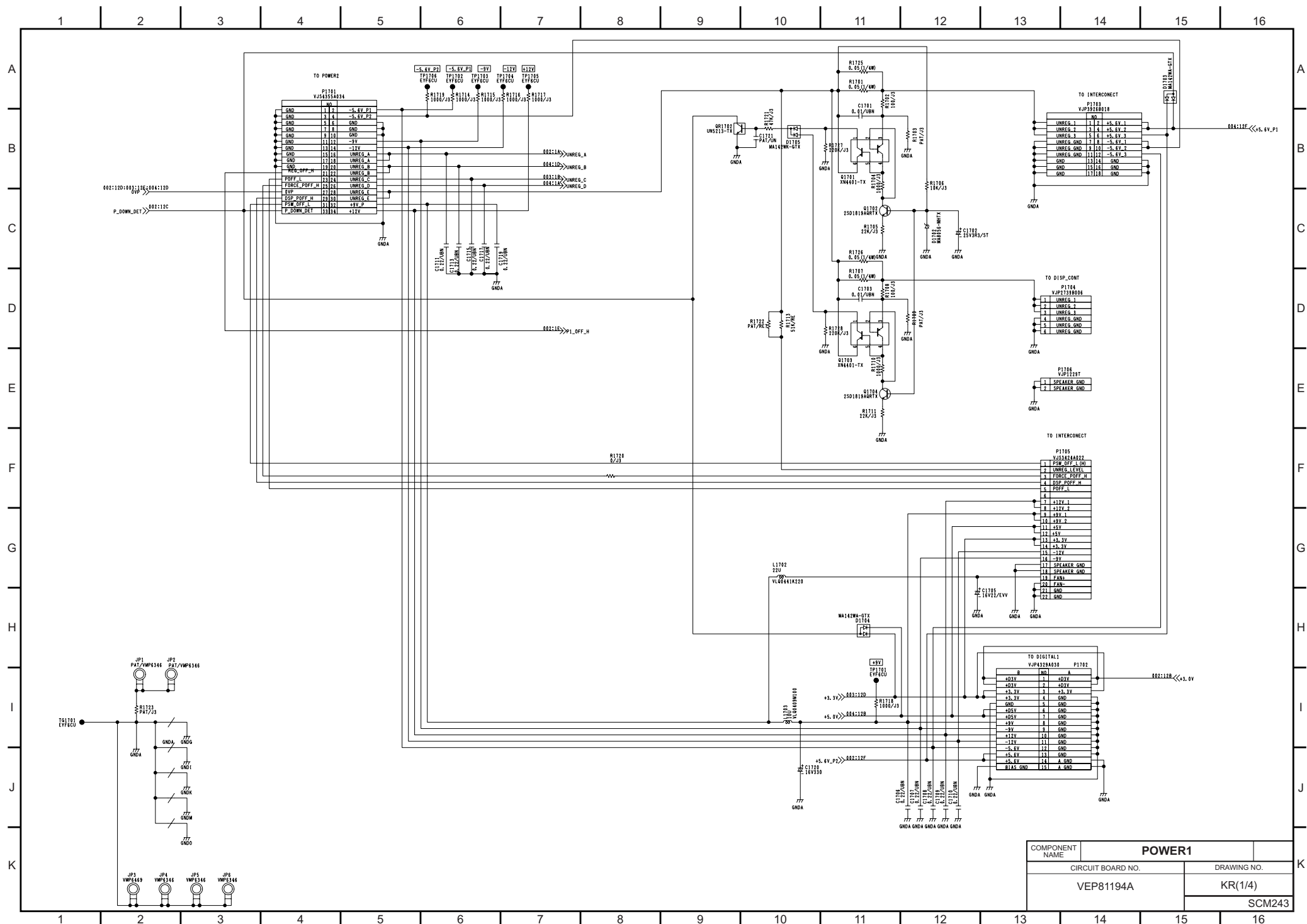


P69101  
VJ537910020

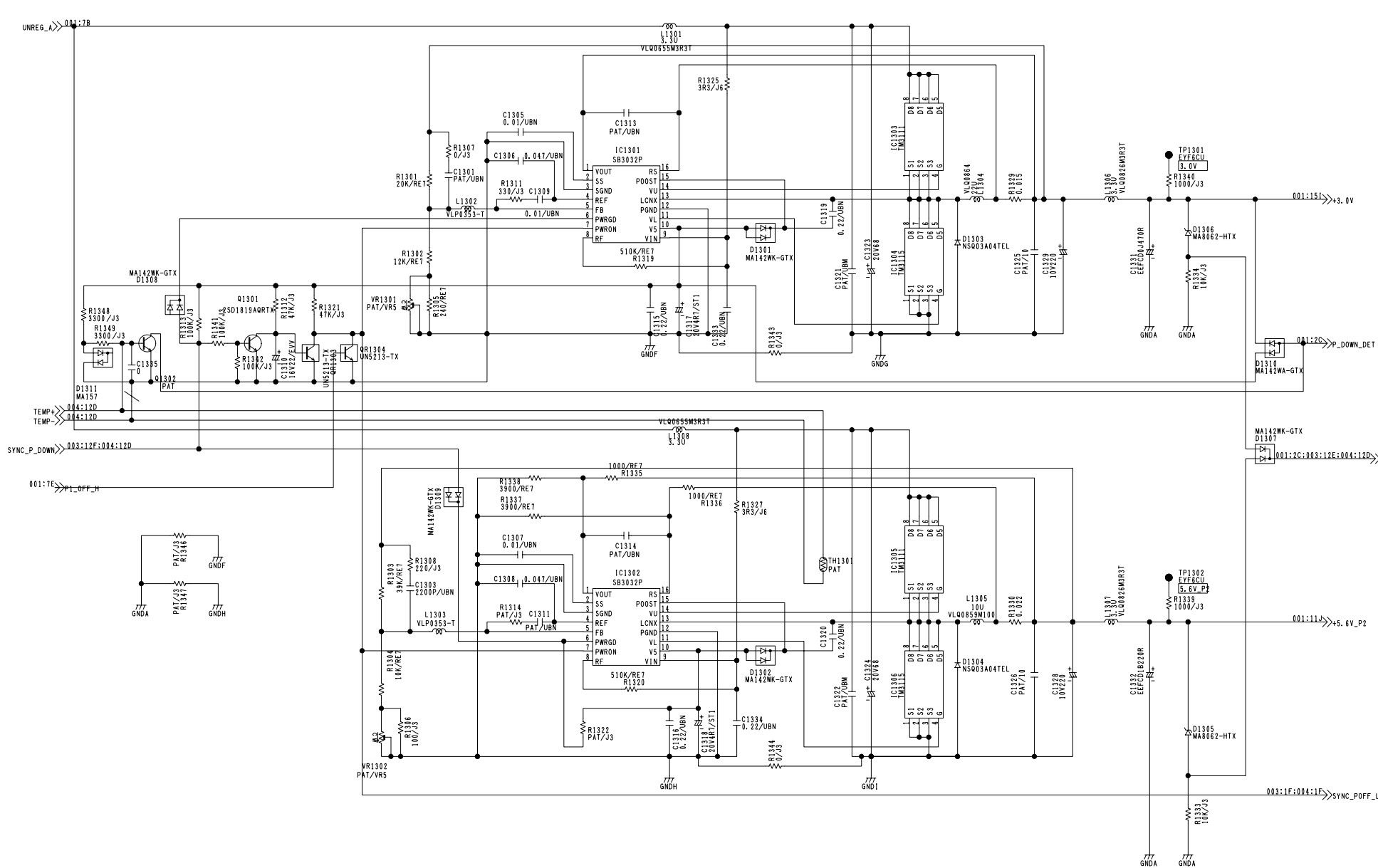
1	GND
2	
3	KEY IN5
4	KEY IN4
5	KEY IN3
6	KEY IN2
7	KEY IN1
8	KEY IN0
9	
10	KEY SCAN3
11	KEY SCAN2
12	KEY SCAN1
13	KEY SCAN0
14	
15	
16	
17	
18	
19	
20	

COMPONENT NAME	DISP SW	
CIRCUIT BOARD NO.		DRAWING NO.
VEP80B35A		KR0M81(1/1)
SCM242		



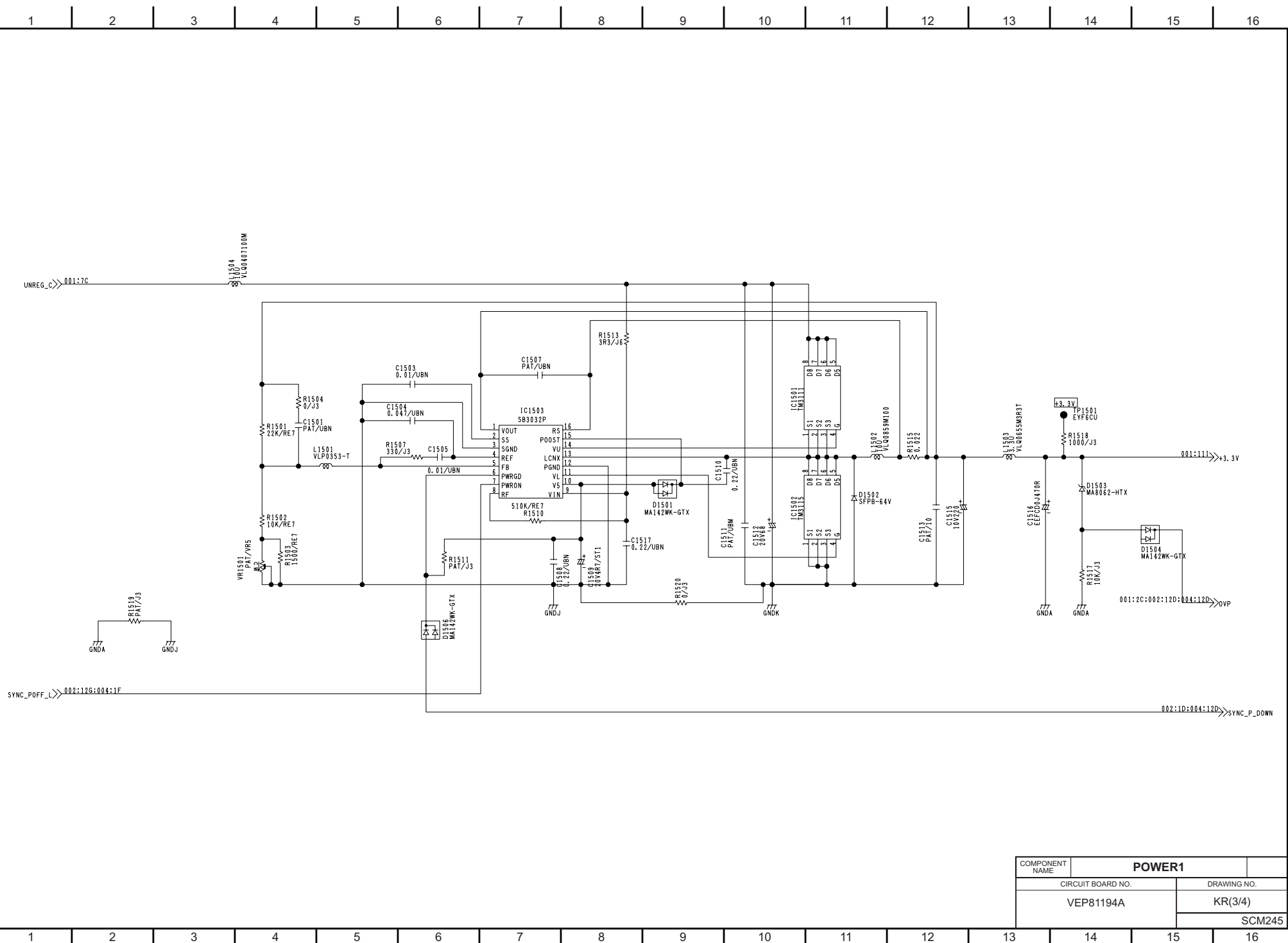




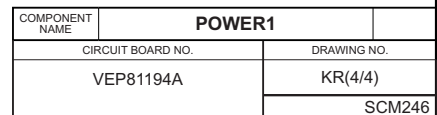


COMPONENT NAME	POWER1		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP81194A		KR(2/4)	
		SCM244	

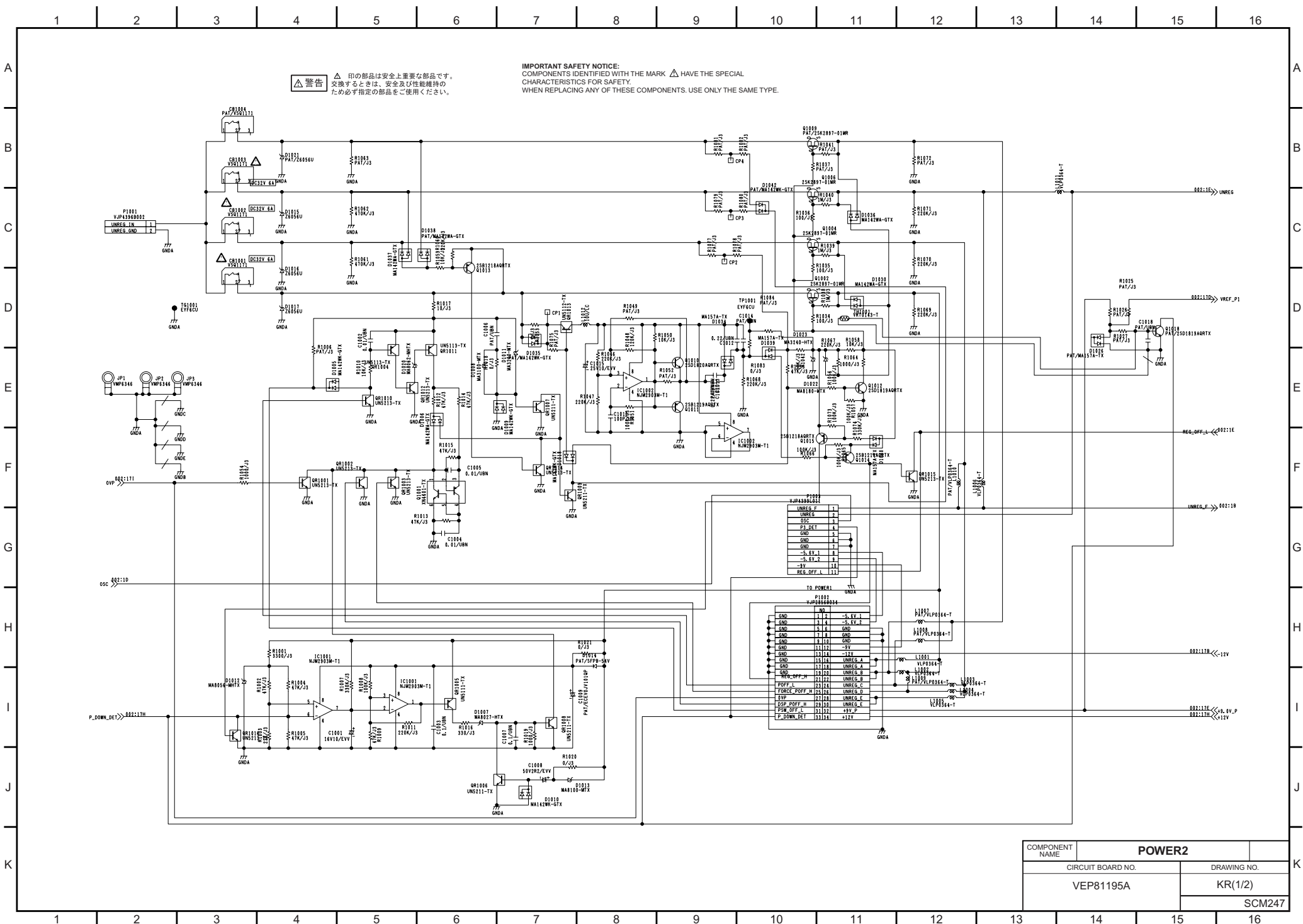






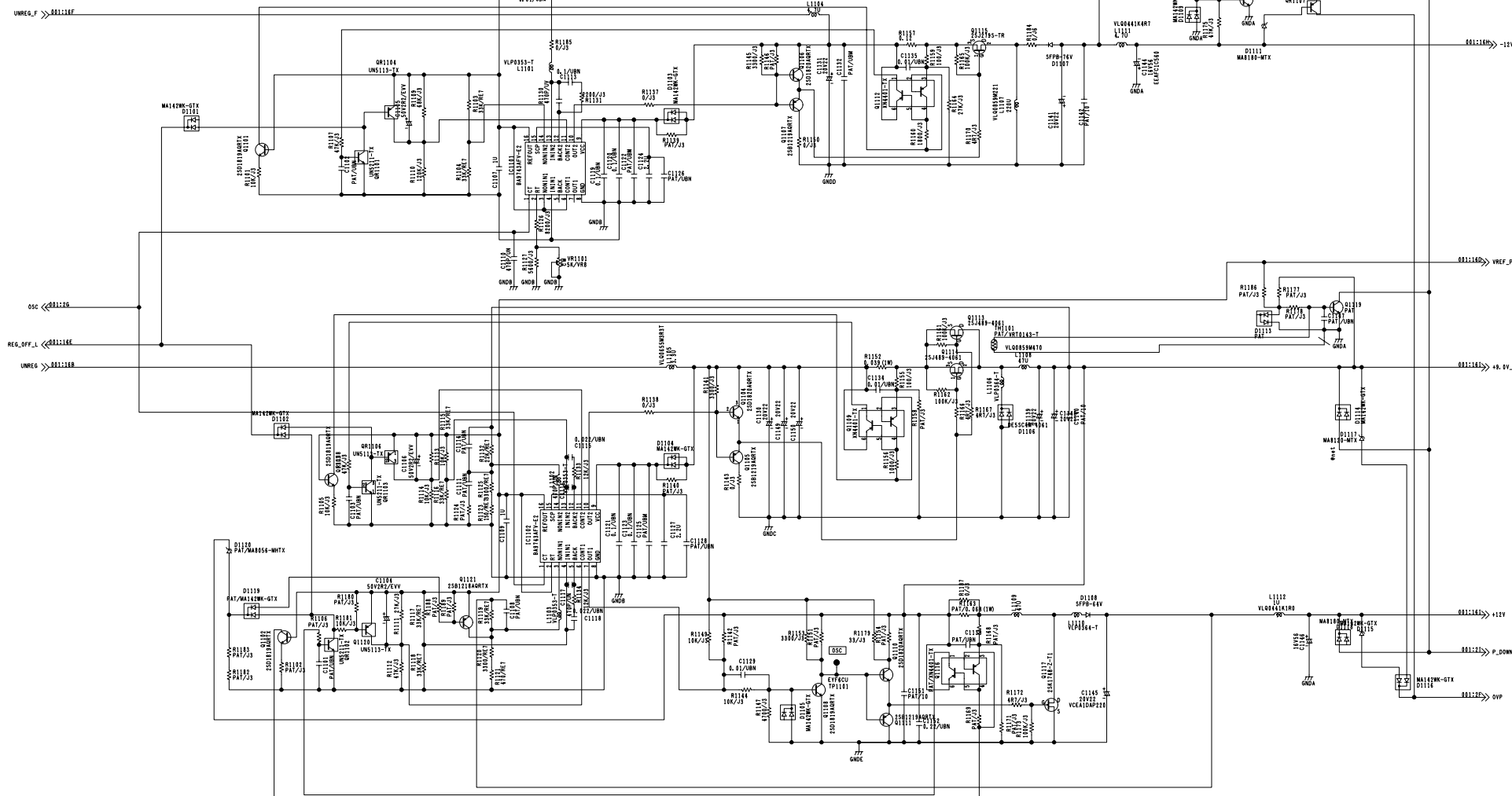








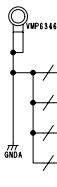
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



COMPONENT NAME	POWER2	
CIRCUIT BOARD NO.	VEP81195A	DRAWING NO.
		KR(2/2)
		SCM248

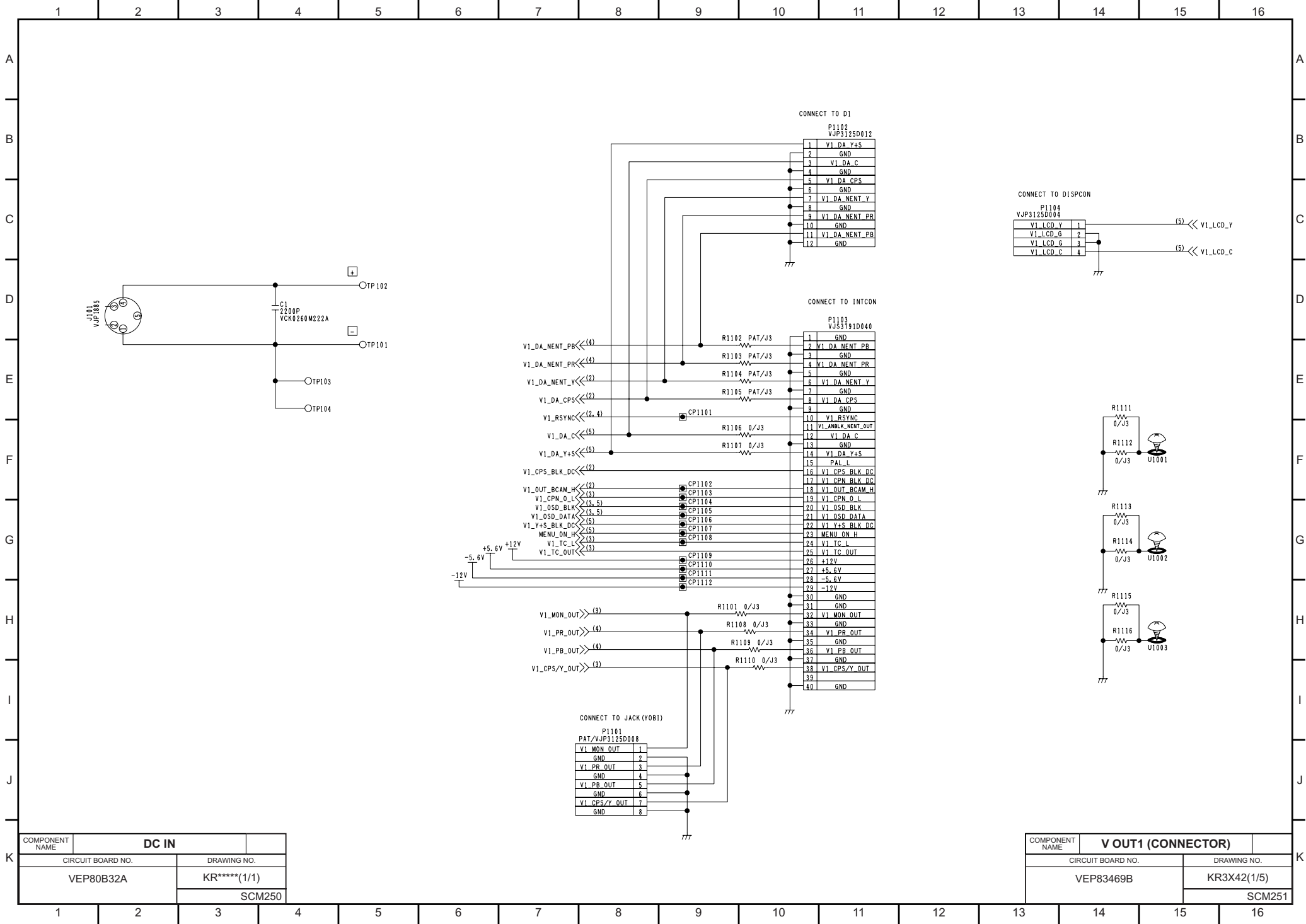
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16





COMPONENT NAME	<b>POWER3</b>		
CIRCUIT BOARD NO.		DRAWING NO.	
VEP81196A		KR(1/1)	
		SCM249	

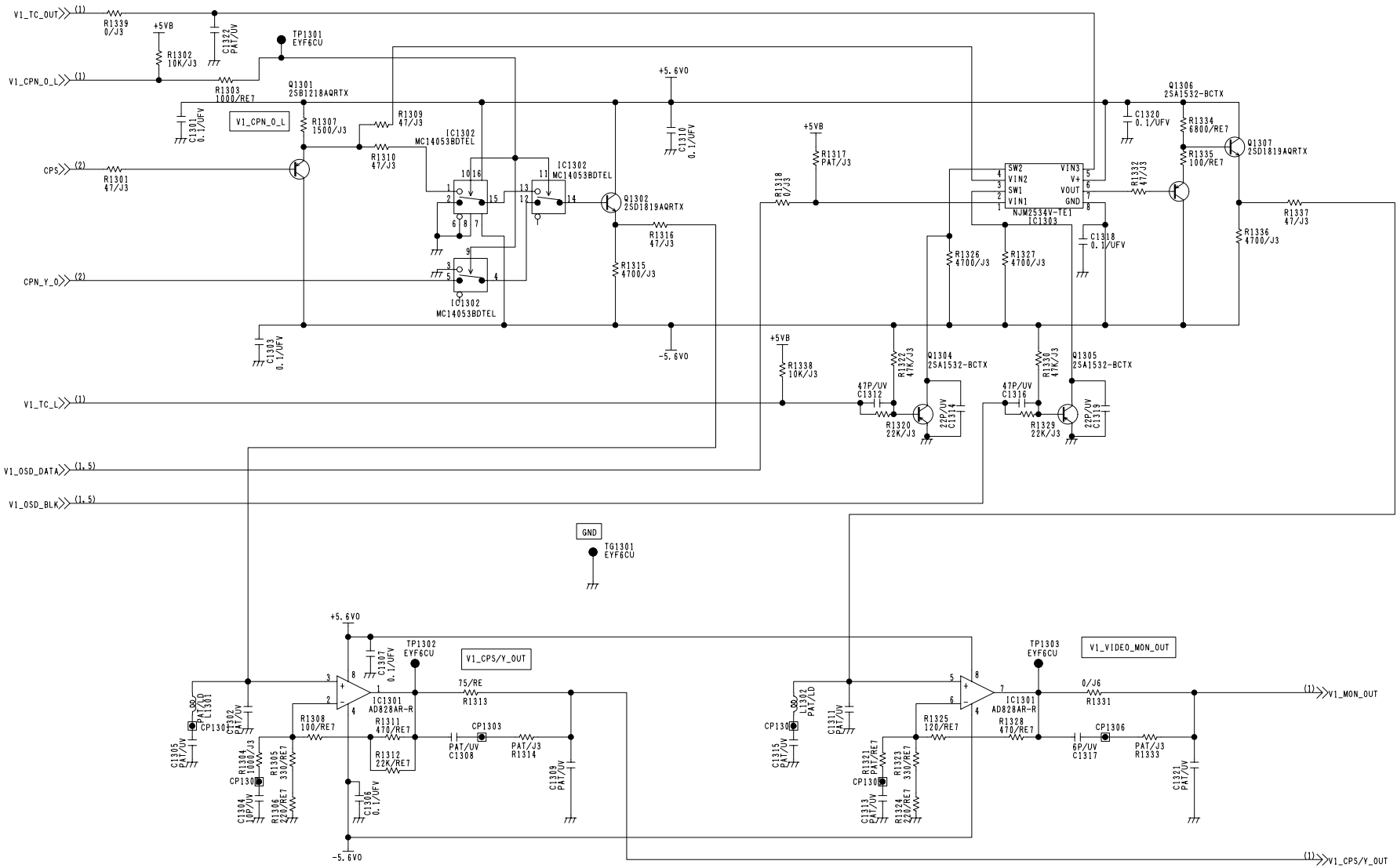










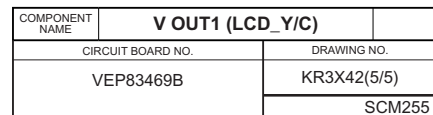


COMPONENT NAME	V OUT1 (VIDEO_BUF)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83469B		KR3X42(3/5)
		SCM253

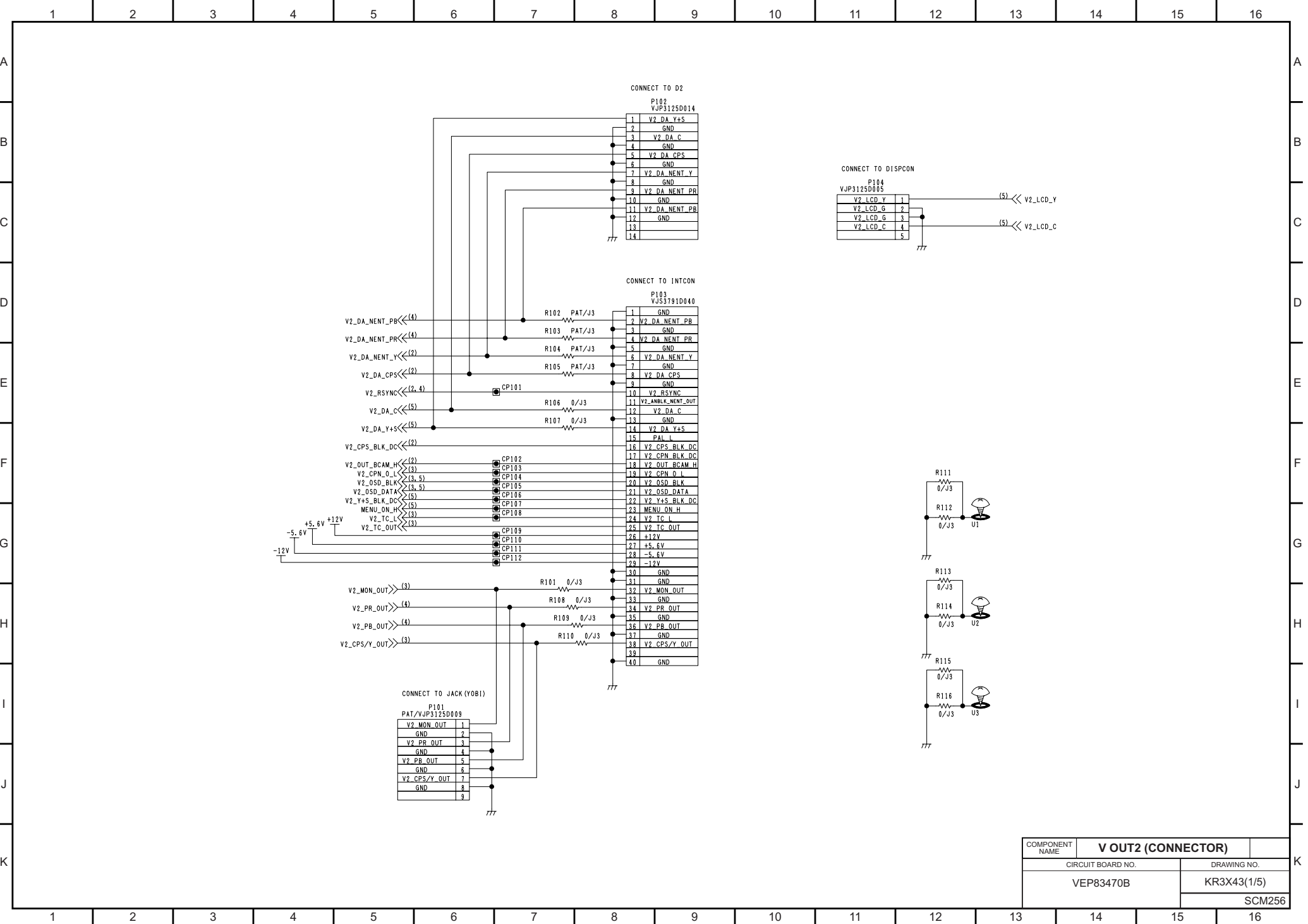












CONNECT TO D2

P102  
VJP3125D014

1	V2_DA_Y+S
2	GND
3	V2_DA_C
4	GND
5	V2_DA_CPS
6	GND
7	V2_DA_NENT_Y
8	GND
9	V2_DA_NENT_PR
10	GND
11	V2_DA_NENT_PB
12	GND
13	
14	

CONNECT TO DISPCON

P104  
VJP3125D005

V2_LCD_Y	1
V2_LCD_G	2
V2_LCD_G	3
V2_LCD_C	4
	5

CONNECT TO INTCON

P103  
VJS3791D040

1	GND
2	V2_DA_NENT_PB
3	GND
4	V2_DA_NENT_PR
5	GND
6	V2_DA_NENT_Y
7	GND
8	V2_DA_CPS
9	GND
10	V2_RSINVC
11	V2_ANBLK_NENT_OUT
12	V2_DA_C
13	GND
14	V2_DA_Y+S
15	PAL_L
16	V2_CPS_BLK_DC
17	V2_CPN_BLK_DC
18	V2_OUT_BCAM_H
19	V2_CPN_D_L
20	V2_OSD_BLK
21	V2_OSD_DATA
22	V2_Y+S_BLK_DC
23	MENU_ON_H
24	V2_TC_L
25	V2_TC_OUT
26	+12V
27	+5.6V
28	-5.6V
29	-12V
30	GND
31	GND
32	V2_MON_OUT
33	GND
34	V2_PR_OUT
35	GND
36	V2_PB_OUT
37	GND
38	V2_CPS/Y_OUT
39	GND
40	GND

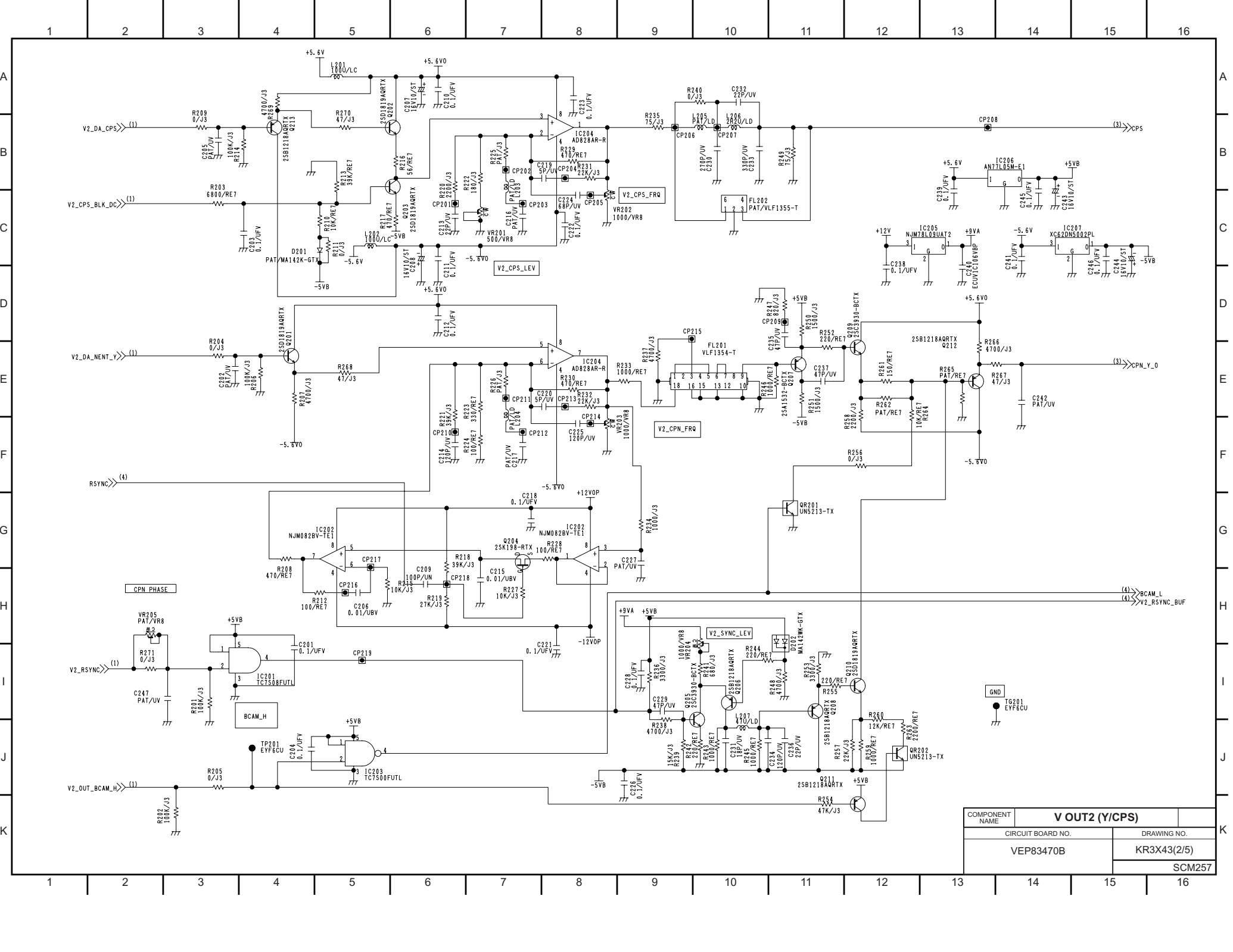
CONNECT TO JACK (YOB1)

P101  
PAT/VJP3125D009

V2_MON_OUT	1
GND	2
V2_PR_OUT	3
GND	4
V2_PB_OUT	5
GND	6
V2_CPS/Y_OUT	7
GND	8
	9

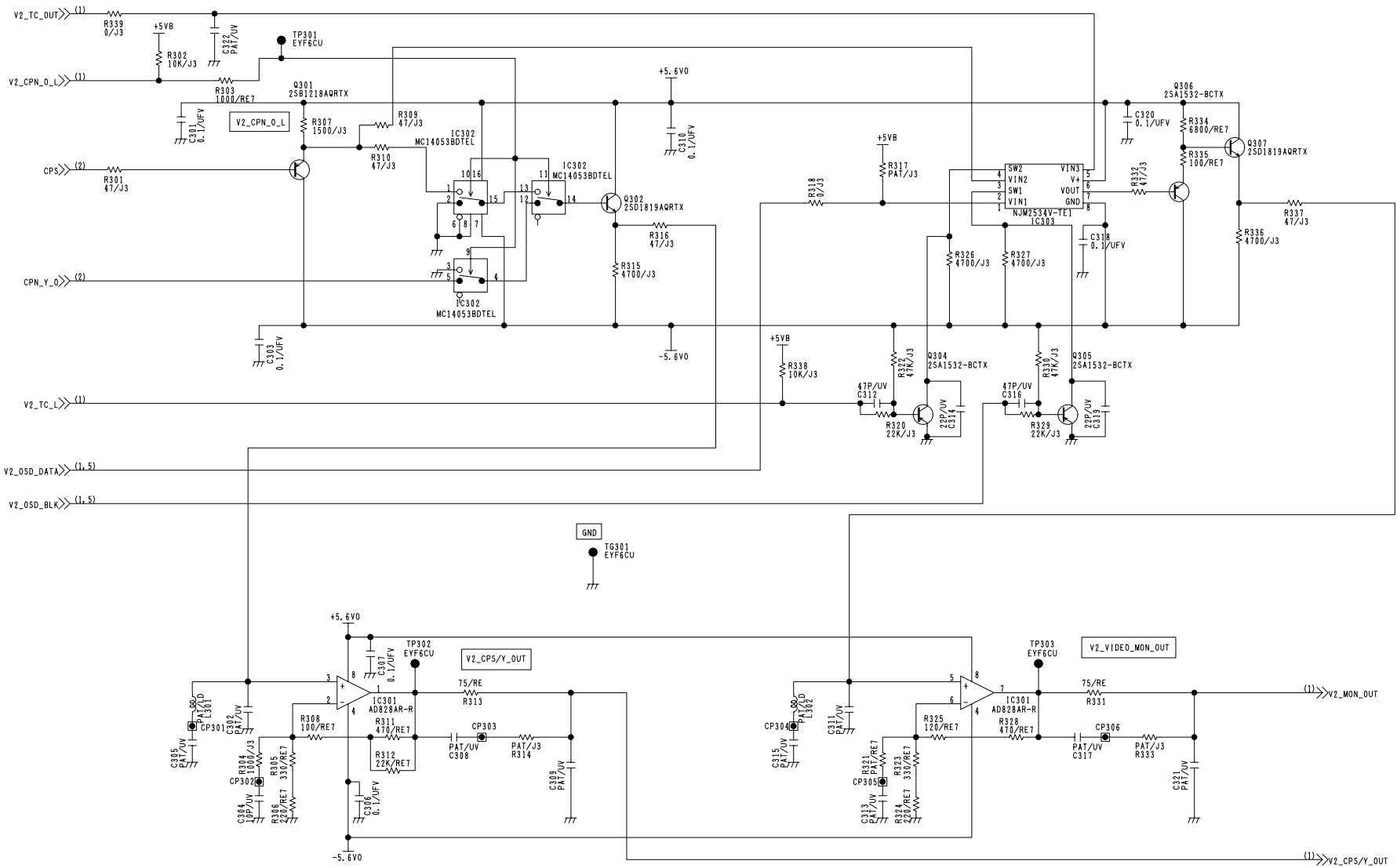
COMPONENT NAME	V OUT2 (CONNECTOR)	
CIRCUIT BOARD NO.		DRAWING NO.
VEP83470B		KR3X43(1/5)
		SCM256





V OUT2 (Y/CPS)	
CIRCUIT BOARD NO.	DRAWING NO.
VEP83470B	KR3X43(2/5)
SCM257	



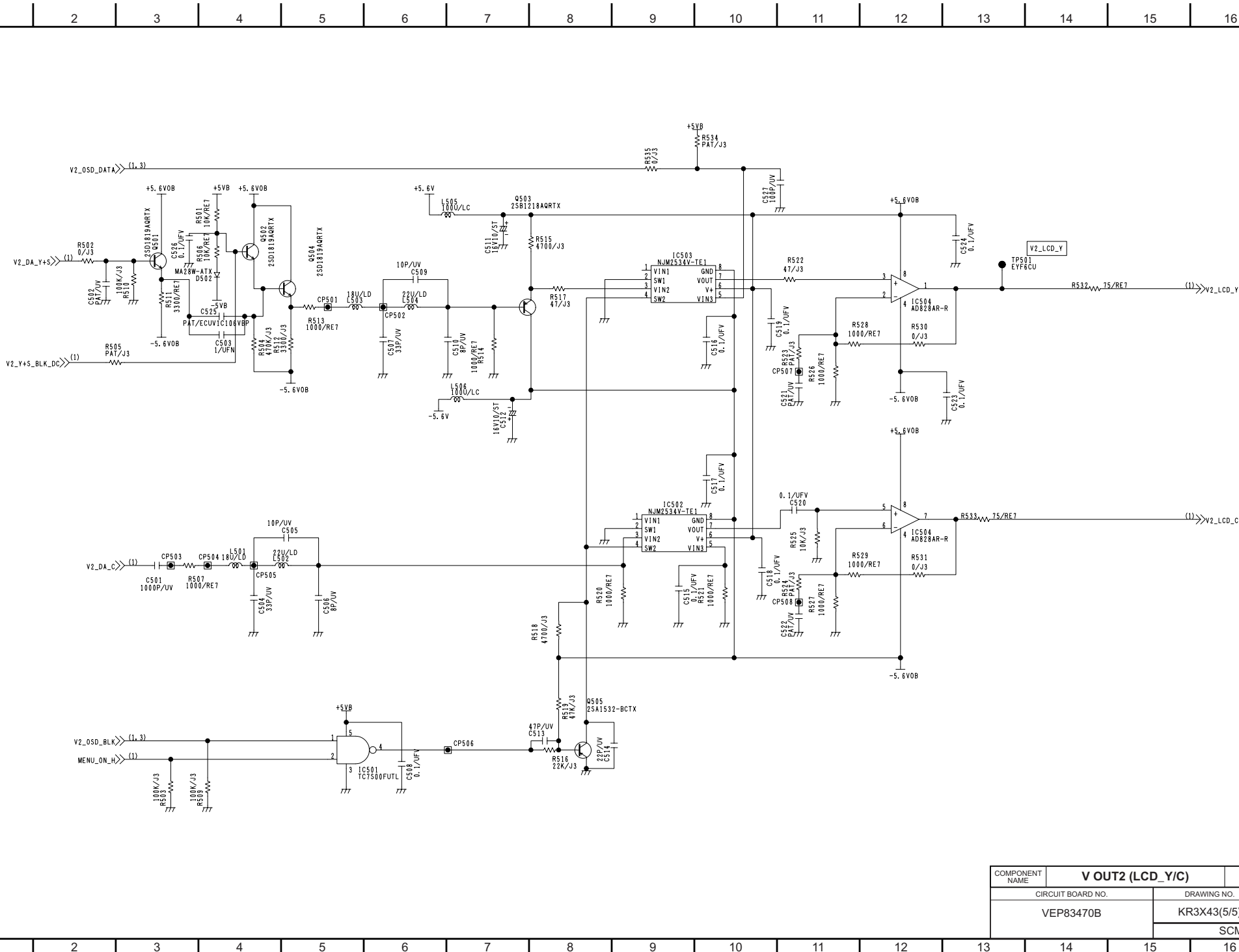


COMPONENT NAME		V OUT2 (VIDEO_BUF)	
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83470B		KR3X43(3/5)	
		SCM258	











# Service Manual

## DVCPRO MECHANISM

- Sec. 1**    *Maintenance*  
**Sec. 2**    *Mechanical Adjustment*  
**Sec. 3**    *Major Mechanism Parts Replacement  
and Adjustment Procedures*

*This material is mentioned about procedures of Mechanical Adjustment and Replacement for DVCPRO product. Please refer to below indicated table, which models apply to this material.*

TYPE	Category	Models
A	25M Studio VTR	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850
B	25M Camera Recorder	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D610, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A
C	25M Lap-top & Portable	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-LT75, AJ-LT85
D	25M 4X Transmitter	AJ-DE77, AJ-D780
E	50M Studio VTR	AJ-D940, AJ-D950, AJ-D950A
F	50M Camera Recorder	AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA
G	50M Portable	AJ-D92, AJ-D94, AJ-D95DC

**2nd Issue**





## **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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# SECTION 1

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## MAINTENANCE

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# 1. Maintenance Parts Schedule Charts

## 1-1. Type of VTR ( except Camera Recorder )

	Name	Apply	Hours of Use (unit hours)					
			2,000H	4,000H	6,000H	8,000H	10,000H	12,000H
	Tape Path Cleaning	25M, 50M	"C" Clean the Tape Path at each 500 hours					
1	Cylinder Ass'y	25M, 50M	R	R	R	R	R	IM
2	Pinch Arm Unit	25M, 50M	R, G	R, G	R, G	R, G	R, G	IM
3	Cleaning Arm Unit	25M, 50M	R	R	R	R	R	IM
4	S,T Reel Rotor Unit	25M, 50M		R (50M)	R (25M)	R (50M)	R (25M)	IM
5	Thrust Screw Unit	25M, 50M		R, L (50M)	R, L	R, L (50M)	R, L (25M)	IM
6	S1 Loading Arm Unit	50M			R			IM
7	T1 Boat Unit	50M			R			IM
8	S5 Post Base A Unit	50M			R			IM
9	Tension Arm Unit	50M			R			IM
10	Mechanism Unit	25M, 50M						R
11	Front Loading Unit	25M, 50M						R
12	Fan Motor	25M, 50M	Replace the Fan Motor at each 10,000 hours <b>Operation Hours</b>					

The following parts are included in the mechanism chassis. Therefore usual replacement is not necessary if the mechanism unit is replaced.

	Name	Hours of Use (unit hours)
		12,000H
13	A/C Head	IM
14	Loading Motor (1) AU	IM
15	Reel Drive Motor Unit	IM
16	Mode Switch Unit	IM
17	Pinch Solenoid	IM
18	S,T Brake Solenoid	IM
19	Distinction SW Unit	IM
20	Cleaner Solenoid	IM
21	Main Cam Gear	IM
22	Front Loading Motor	F

### <Note>

Hours of Use are based on the head rotation hours.

Hours of Use are recommendation. It may depend on temperature, humidity or dust.

Hours of Use are listed as the reference of maintenance. They do not mean guaranteed hours.

"R" : These parts are replacement parts.

"IM" : These parts are included in Mech. Chassis Unit. Replacing Mech. Chassis Unit is recommended.

"F" : These parts are included in Mech. Chassis.

"G" : Wipe the old grease and apply new grease. (Use Molytone Grease)

"L" : The lubrication is necessary.

"C" : This mark means cleaning is necessary.



## 1-2. Type of Camera Recorder

	Name	Apply	Hours of Use (unit hours)					
			2,000H	4,000H	6,000H	8,000H	10,000H	12,000H
	Tape Path Cleaning	25M, 50M	<b>"C"</b> Clean the Tape Path at each 500 hours					
1	Cylinder Assy'y	25M, 50M		<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>IM</b>
2	Pinch Arm Unit	25M, 50M	<b>R, G</b>	<b>R, G</b>	<b>R, G</b>	<b>R, G</b>	<b>R, G</b>	<b>IM</b>
3	Cleaning Arm Unit	25M, 50M	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>IM</b>
4	S,T Reel Motor Unit	25M, 50M		<b>R (50M)</b>	<b>R (25M)</b>	<b>R (50M)</b>	<b>R (25M)</b>	<b>IM</b>
5	Thrust Screw Unit	25M, 50M		<b>R, L (50M)</b>	<b>R, L</b>	<b>R, L (50M)</b>	<b>R, L (25M)</b>	<b>IM</b>
6	S1 Loading Arm Unit	50M			<b>R</b>			<b>IM</b>
7	T1 Boat Unit	50M			<b>R</b>			<b>IM</b>
8	S5 Post Base A Unit	50M			<b>R</b>			<b>IM</b>
9	Tension Arm Unit	50M			<b>R</b>			<b>IM</b>
10	M cassette Brake (S,T) AU	25M, 50M			<b>R</b>			<b>IM</b>
11	Mechanism Unit	25M, 50M						<b>IM</b>

The following parts are included in the mechanism chassis. Therefore usual replacement is not necessary if the mechanism unit is replaced.

	Name	Hours of Use (unit hours)
		12,000H
12	A/C Head	<b>IM</b>
13	Loading Motor (1) AU	<b>IM</b>
14	Mode Switch Unit	<b>IM</b>
15	Pinch Solenoid	<b>IM</b>
16	S,T Brake Solenoid	<b>IM</b>
17	Cleaner Solenoid	<b>IM</b>
18	Main Cam Gear	<b>IM</b>

### <Note>

Hours of Use are based on the head rotation hours.

Hours of Use are recommendation. It may depend on temperature, humidity or dust.

Hours of Use are listed as the reference of maintenance. They do not mean guaranteed hours.

**"R"** : These parts are replacement parts.

**"IM"** : These parts are included in Mechanism Unit. Replacing Mech. Chassis Unit is recommended.

**"F"** : These parts are included in Mechanism Unit.

**"G"** : Wipe the old grease and apply new grease. (Use Molytone Grease)

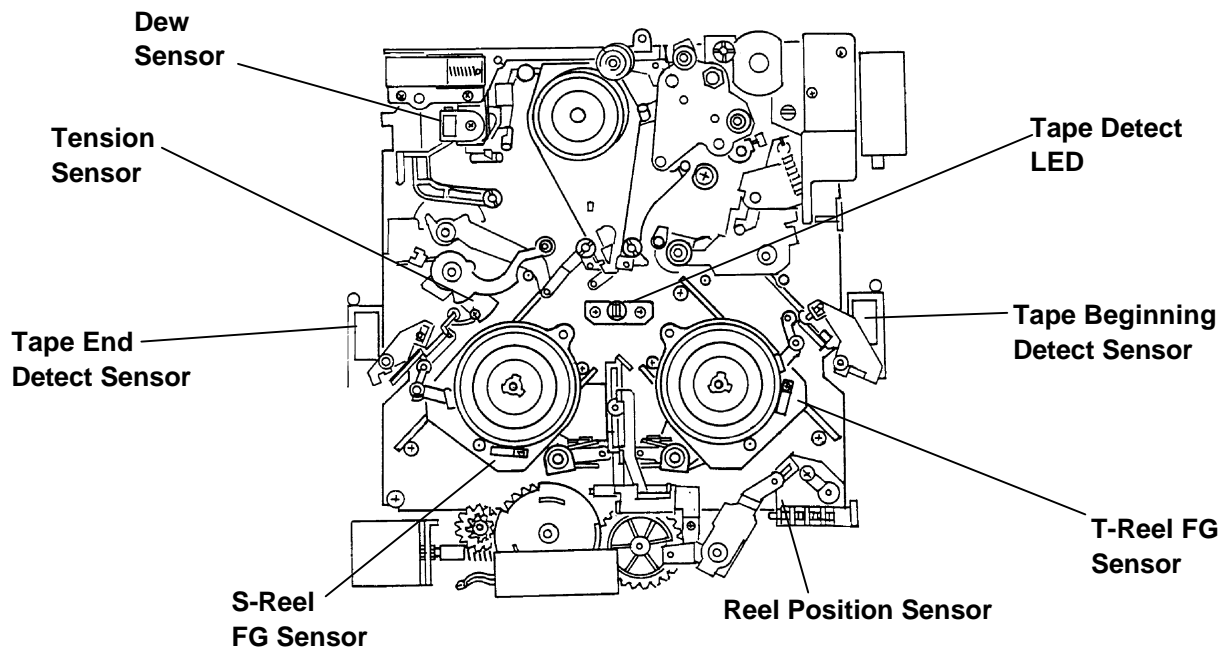
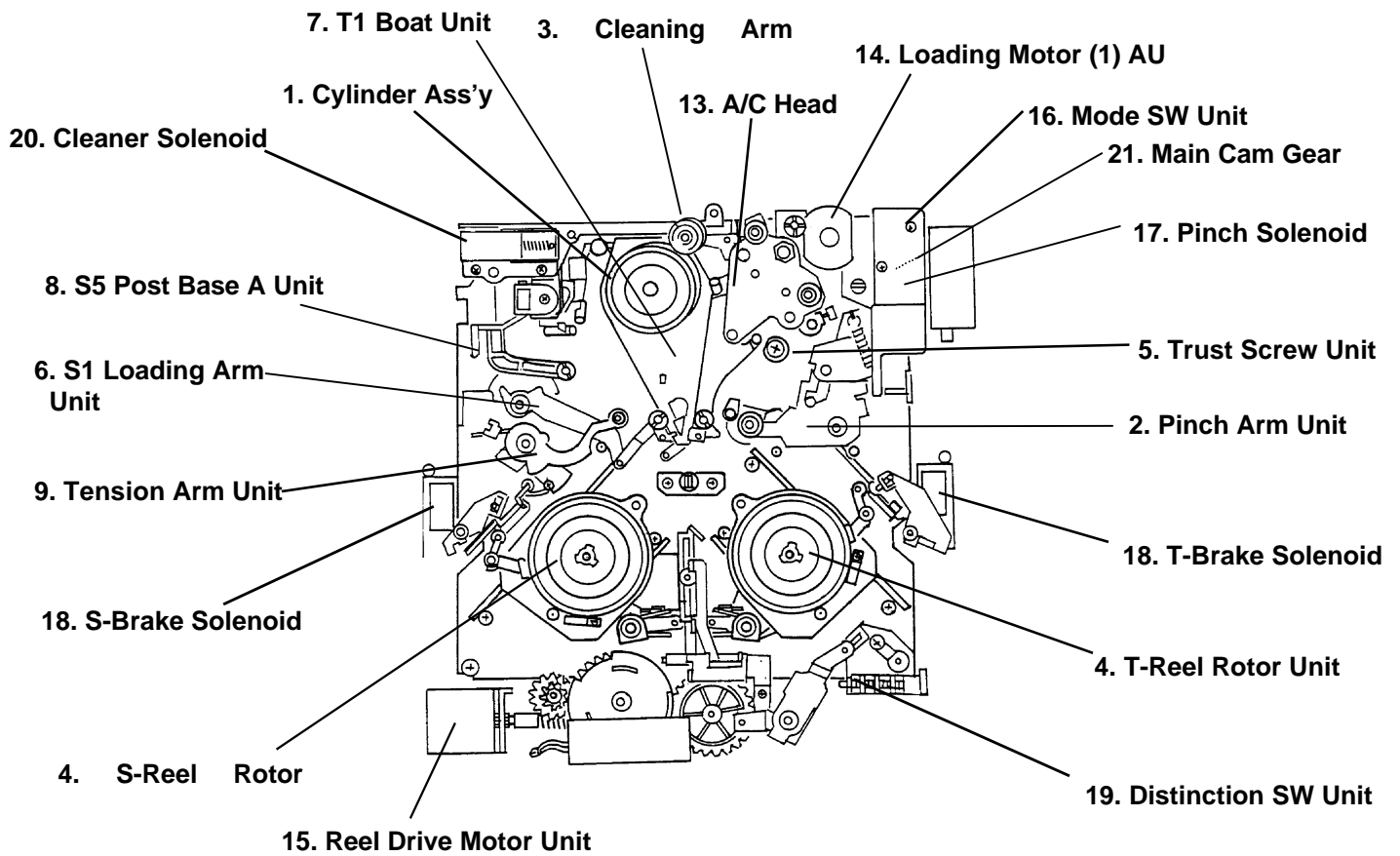
**"L"** : The lubrication is necessary.

**"C"** : This mark means cleaning is necessary.



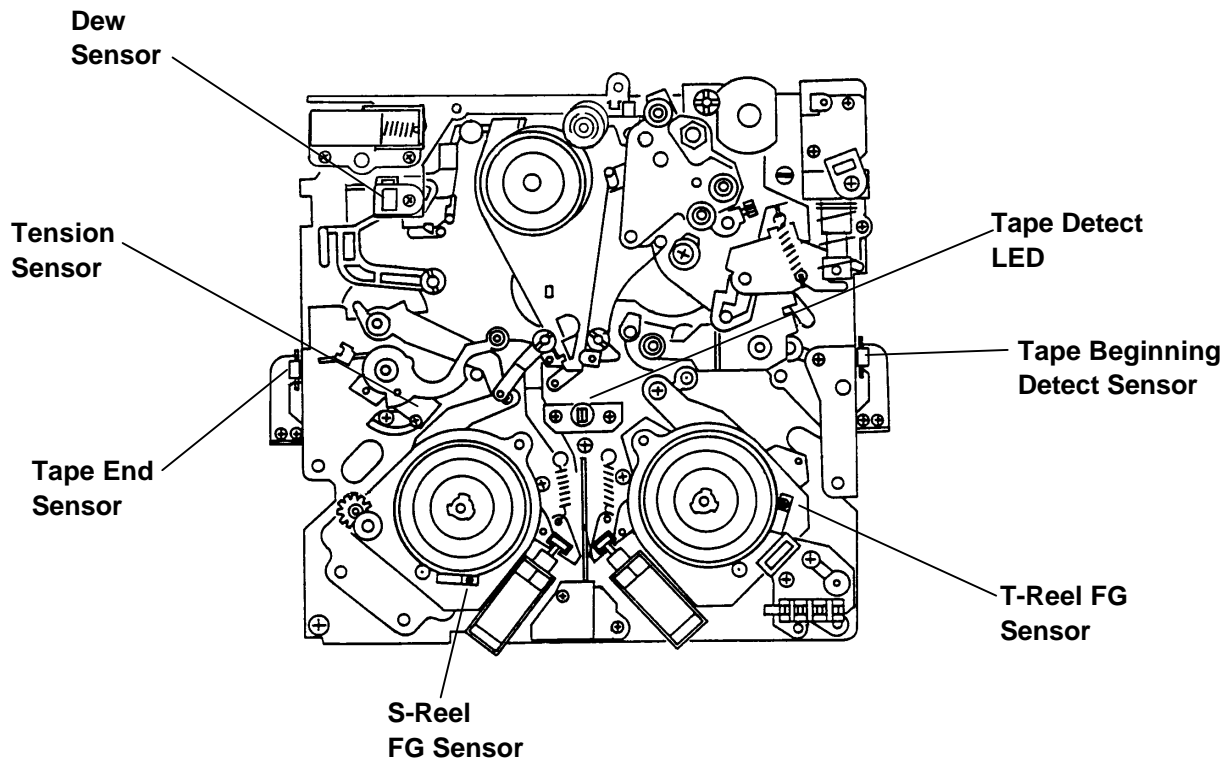
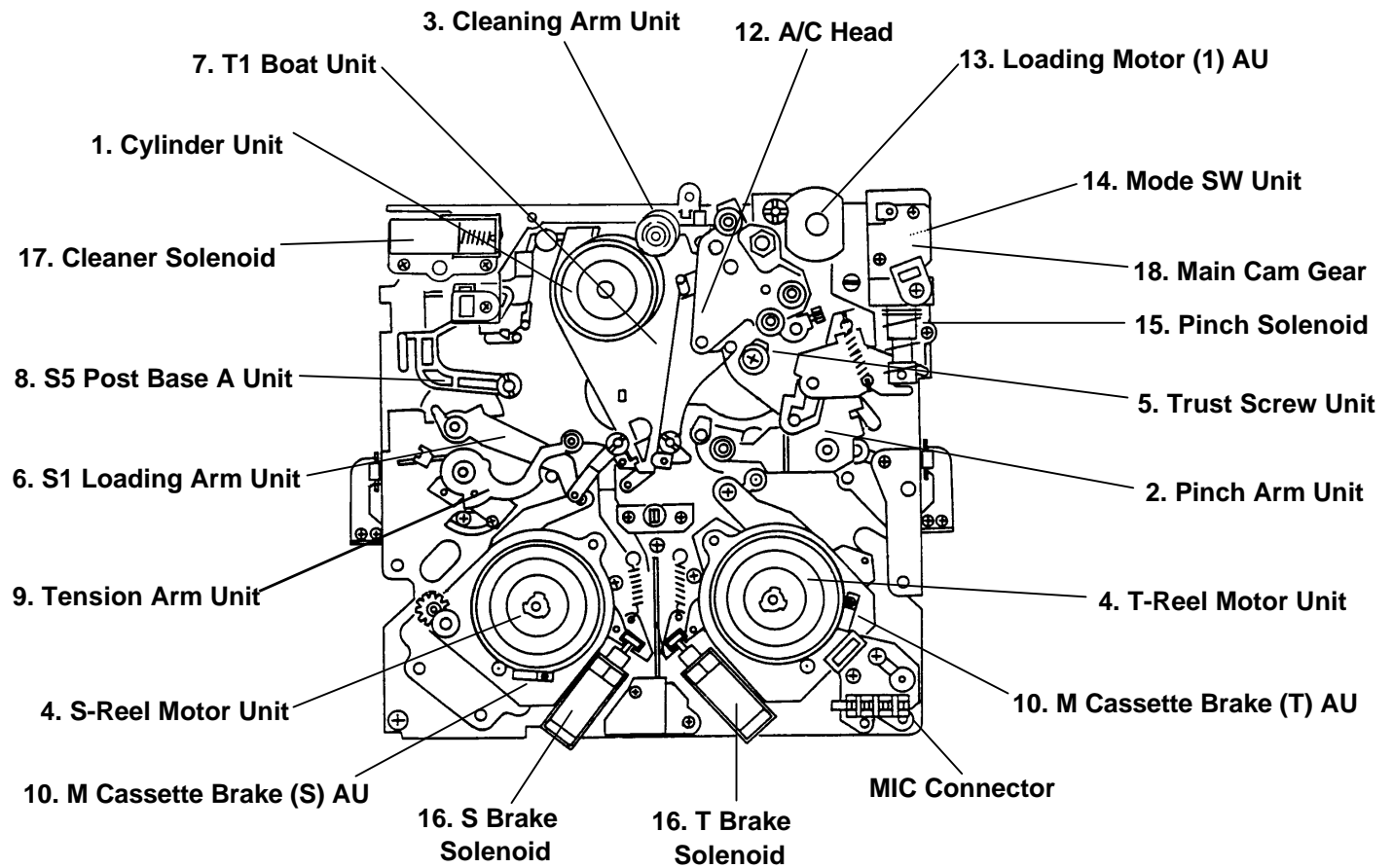
## 2. Parts and Sensor Location

### 2-1. Type of VTR (except Camera Recorder)





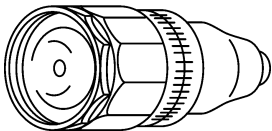
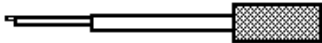
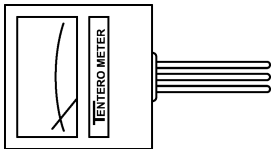
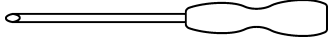
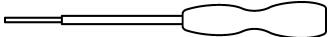
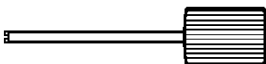
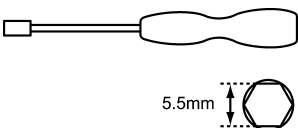
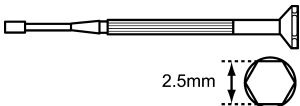
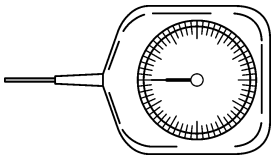

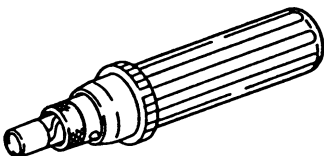
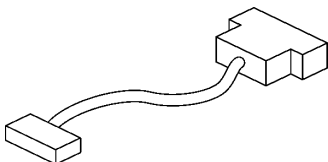

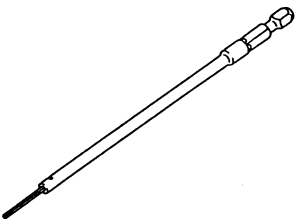
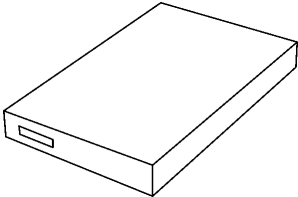
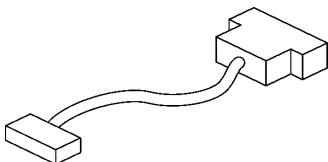

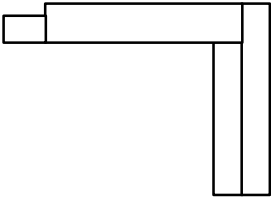
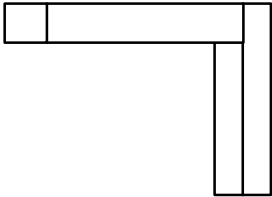

## 2-2. Type of Camera Recorder





No	P/N(NTSC)	P/N(PAL)	JIG & EQUIPMENT	AJ-D750	AJ-D7000	AJ-D650	AJ-D640	AJ-	AJ-D220	AJ-D2000	AJ-LT75	AJ-	AJ-	AJ-D950	AJ-D780	AJ-LT85	AJ-DE77	AJ-D210	PURPOSE
<b>General Jigs</b>																			
1	VFK71A	----	Dial Torque Gauge 1.5cN-m (1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Reel Break Force Confirmation
2	VFK0357	----	Eccentric Screwdriver (1.5)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Mechanical Adjustment
3	VFK1145	----	Back Tension Meter (T2-M30-P	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Tape Tension Adjustment
4	VFK1146	----	Phillips Driver	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	General
5	VFK1147	----	Phillips Driver	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	General
6	VFK1148	----	Hex Driver (1.5)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Mechanical Adjustment
7	VFK1149	----	Post Driver	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Tape Post Height Adjustment
8	VFK1150	----	Nut Driver (5.5mm)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Mechanical Adjustment
9	VFK1151	----	Nut Driver (2.5mm)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Mechanical Adjustment
10	VFK1178	----	Hex Driver (0.89)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Mechanical Adjustment
11	VFK1179	----	Hex Driver (0.71)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Mechanical Adjustment
12	VFK1188A	----	Dial Tension Gauge 30mN (30c	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Tape Tension Adjustment
13	VFK1190	----	HEX, Wrench	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Mechanical Adjustment
14	VFK1191A	----	Dial Torque Gauge 0.45cN-m (1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Reel Torque Adjustment
15	VFK1209A	----	Torque Driver 4-30cN-m (0.4-3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	A/C Head Adjustment
16	VFK1341	----	CC Filter (3600K)																Camera Adjustment
17	VFK1342	-----	CC Filter (4500K)																Camera Adjustment
18	-----	VFK1343	CC Filter (3600K)																Camera Adjustment
19	VFK1345	----	CC Filter Holder																Camera Adjustment
20	VFK1346	----	CC Filter Step Down Ring																Camera Adjustment
21	VFK1347	----	CC Filter (5100K)																Camera Adjustment
22	VFK1375	----	1.5mm Hex Bit	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	A/C Head Adjustment
23	VFKW1000A	----	EVR I/F BOX																Electrical Adjustments
24	VFKW1000C	----	EVR RS-232 Cable																Cable between PC and I/F Box
25	VFK1300	----	AD Board (DAO-12)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Tape Interchangeability Adjustment
26	VFK1542	----	T Arm Height Adj. Tool A	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	T Loading Arm Height Adj.
27	VFK1543	----	T Arm Height Adj. Tool B	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	T Loading Arm Height Adj.
<b>A Kit (VFK101P-KIT : NTSC / VFK101E-KIT : PAL)</b>																			
28	VFK1152	----	Dial Torque Gauge Adapter	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Adapter for Reel Torque Gauge
29	VFK1153	----	Mech. Neutral Plate (Post / M)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Post Height Coarse Adjustment
30	VFK1154	----	Post Height Fixture	Y	Y	Y													

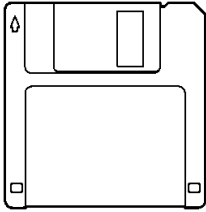
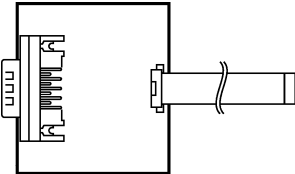



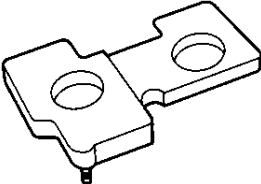
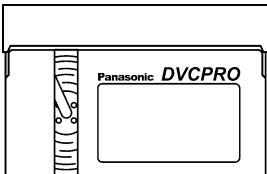
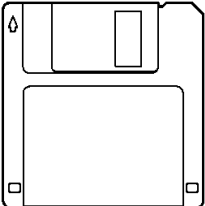
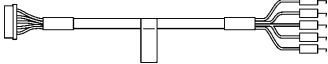
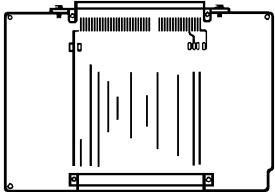
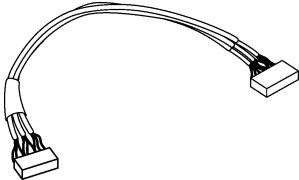
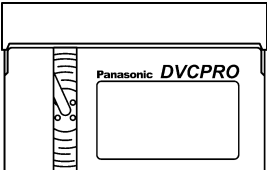
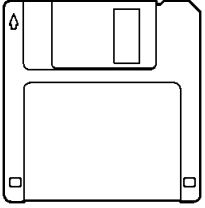
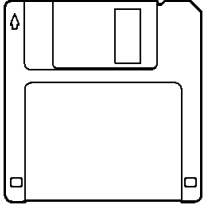


<b>1</b> VFK71 :1.5cN-m (150g) <b>14</b> VFK1191 :0.45cN-m (45g) Dial Torque Gauge 	<b>2</b> VFK0357 (1.5mm) Eccentric Screwdriver 	<b>3</b> VFK1145 (T2-M30-P) Back Tension Meter 	<b>4</b> VFK1146 <b>5</b> VFK1147 Phillips Driver 
<b>6</b> VFK1148 (1.5mm) <b>10</b> VFK1178 (0.89mm) <b>11</b> VFK1179 (0.71mm) Hex Driver 	<b>7</b> VFK1149 (2.5mm) Post Driver 	<b>8</b> VFK1150 (5.5mm) Nut Driver 	<b>9</b> VFK1151 (2.5mm) Nut Driver 
<b>12</b> VFK1188 :30mN (30g) Dial Tension Gauge 	<b>13</b> VFK1190 Hex Wrench 	<b>15</b> VFK1209 :4-30cN-m (0.4-3Kg) Torque Driver 	<b>16</b> VFK1341 (3600K) <b>17</b> VFK1342 (4500K) <b>18</b> VFK1343 (3600K) <b>21</b> VFK1346 (5100K) CC Filter 
<b>19</b> VFK1345 CC Filter Folder <b>20</b> VFK1346 CC Filter Step Down Ring 	<b>22</b> VFK1375 (1.5mm) Hex Bit 	<b>23</b> VFKW1000AA EVR I/F Box 	<b>24</b> VFKW1000C EVR RS-232 Cable 
<b>25</b> VFK1300 A/D Board (DAQ-12) 	<b>26</b> VFK1542 T Arm Height Adj. Tool A 	<b>27</b> VFK1543 T Arm Height Adj. Tool B 	<b>28</b> VFK1152 Dial Torque Gauge Adapter 



<b>29 VFK1153</b> Mech. Neutral Plate (Post / M) 	<b>30 VFK1154</b> Post Height Fixture 	<b>31 VFK1155 (Silver)</b> REV Position Tool <b>32 VFK1156 (Black)</b> PLAY Position Tool 	<b>33 VFK1158A</b> Auto B.E.R Counter 
<b>34 VFK1481</b> LISTA Software 	<b>35 VFK1160C</b> RF Auto Adj. Software 	<b>36 VFK1162B</b> EVR Software 	<b>37 VFK1163</b> E.Q. Adjustment Tool 
<b>38 VFK1180</b> EVR Sub I/F Board 	<b>39 VFK1185</b> BER Counter Cable 	<b>40 VFK1186</b> LISTA Cable 	<b>41 VFK1187</b> EVR Cable 
<b>42 VFK1192 (F)</b> Extension Board 	<b>43 VFK1193 (H)</b> Extension Board 	<b>44 VFK1194</b> Extension Board 	<b>45 VFK1208</b> Neutral Position Tool 
<b>46 VFK1210</b> Multi-Canon Cable 	<b>47 VFM3000EDS</b> DV Alignment Tape 	<b>48 VFM3010EDS</b> DV Alignment Tape 	<b>49 VFM3580KM</b> <b>50 VFM3581KM</b> <b>51 VFM3582KM</b> M Alignment Tape 



<b>52 VFK1248K</b> Flash Memory Version Up Software 	<b>53 VFK1304</b> Flash Memory Version Up Tool 	<b>54 VFK1305 (120P)</b> Extension Board 	<b>55 VFK1306 (52P)</b> Extension Board 
<b>56 VFK1307 (70P)</b> Extension Board 	<b>57 VFK1348</b> Mech. Neutral Plate (Post /L) 	<b>58 VFK1339</b> Tape Beg./ End. Det. Cassette (L) 	<b>59 VFK1339</b> EVR Software 
<b>60 VFK1228</b> B.E.R. Counter Cable 	<b>61 VFK1357</b> Extension Board 	<b>62 VFK1358</b> Extension Cable (A/C Head) 	<b>63 VFM3580KL (No. 1)</b> <b>64 VFM3581KL (No. 2)</b> <b>65 VFM3582KL (No. 3)</b> L Alignment Tape 
<b>66 VFK1383</b> Extension Board 	<b>67 VFK1487</b> RF Tool Modif. Kit 	<b>68 VFK1468</b> Flash Memory Version Up Software 	<b>69 VFK1481</b> LISTA Software 



## 4. Alignment Tapes

### 4-1. DCVPRO Alignment Tape

#### 4-1-1. VFM3580KM (NTSC)

Time (min)	VIDEO		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar SMPTE(75%)	Composite Video Level Confirmation	1KHz -20dB	Audio Level Confirmation	1KHz 0VU	CUE Level Confirmation
7:00	Color Bar (100%)	Component Video Level Confirmation			6KHz 0VU	A/C Head Azimuth
14:00	H Sweep	Frequency Response			300,500,1K 2K,4K,6KHz	Frequency Response
18:00	Bowtie (500K)	Y/C Timing			-----	-----
22:00	Pulse & Bar	Y/C Timing				
26:00	Area Markers					

#### 4-1-2. VFM3581KM (NTSC)

Time (min)	VIDEO		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	ITI Pattern	Linearity Adjustment	---	---	---	---

#### 4-1-3. VFM3582KM (NTSC)

Time (min)	VIDEO		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar (75%) w/ REF	X-Value Adjustment	---	---	6KHz 10VU	X-Value Adjustment

#### 4-1-4. VFM3380KM (NTSC)

DVC PRO 50 Alignment Tape

#### 4-1-5. VFM3583KM (NTSC)

RF Auto EQ Alignment Tape



**4-1-6. VFM3680KM (PAL)**

Time (min)	VIDEO		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar 100%	Video Level Confirmation	1KHz -18dBu	Audio Level Confirmation	1KHz Reference Level	CUE Level Confirmation
10:00	H Sweep	Frequency Response			6KHz Reference Level	A/C Head Azimuth
14:00	Area Makers				1KHz 300KHz~6KHz	Frequency Response
18:00	Bowtie (500K)	Y/C Timing				
22:00	Pulse & Bar	Y/C Timing				
26:00 30:00	Multi Pulse	Y/C Timing				

**4-1-7. VFM3681KM (PAL)**

Time (min)	VIDEO		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00 20:00	ITI Pattern	Linearity Adjustment	---	---	---	---

**4-1-8. VFM3682KM (PAL)**

Time (min)	VIDEO		PCM		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00 10:00	Color Bar (75%) w/ REF	X-Value Adjustment	---	---	6KHz 10VU	X-Value Adjustment

**4-1-9. VFM3480KM**

DVC PRO 50 Alignment Tape

**4-1-10. VFM3683KM**

RF Auto EQ Alignment Tape



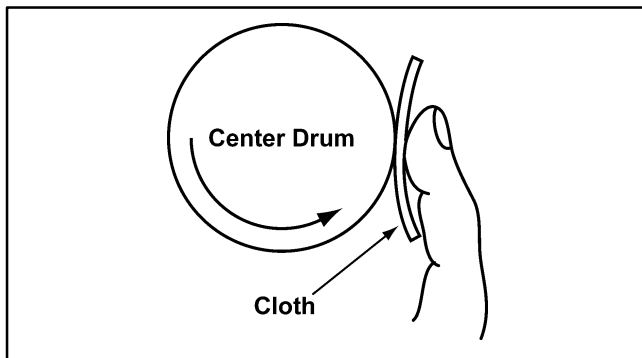
## 5. Cleaning Procedures

**NOTE :** Turns power off during cleaning.

Make sure the power is OFF before cleaning.  
Use ethanol (more than 99% purity) as cleaning liquid.

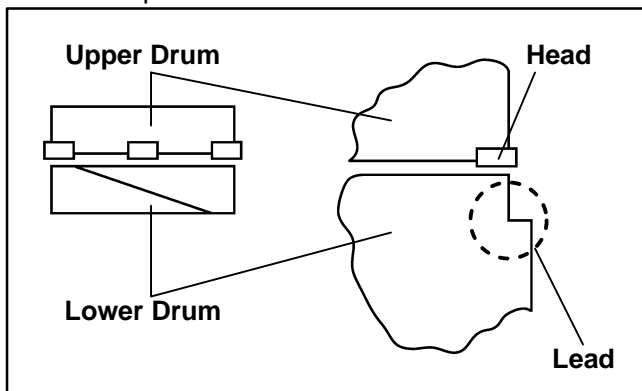
### 5-1 Cleaning of Head Chips : (Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



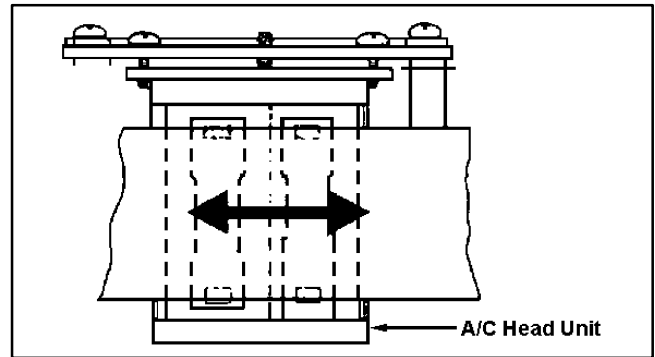
### 5-2. Cleaning of Drum Lead : (Weekly)

Be careful not to touch a head chip. Clean the drum lead with a pick.



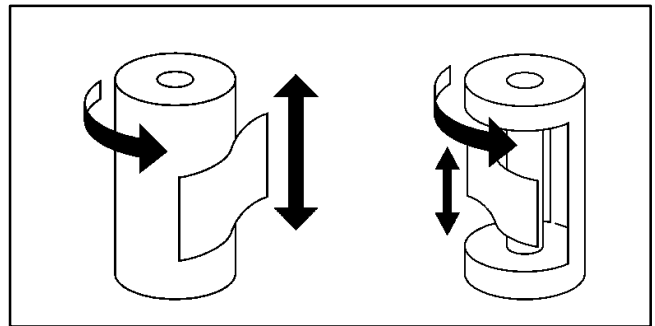
### 5-3. Cleaning of A/C Head : (Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



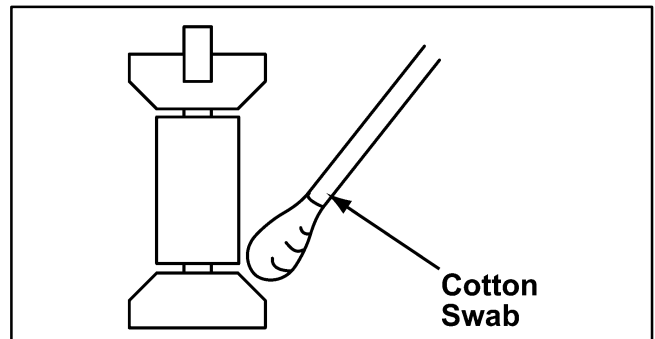
### 5-4. Cleaning of Pinch Roller and Capstan : (Weekly)

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



### 5-5. Cleaning of Post : (Weekly)

Wind a cloth on a pick. Wipe each post dry with that pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



**NOTE:**

Use the clean cloth for cleaning purpose. Do not use any dirty cloth.

The Cleaning Cloth can be ordered as spare part.

The part number indicated as below.

CLEANING CLOTH : VZZ0095



# SECTION 2

## MECHANICAL ADJUSTMENT

### CONTENTS

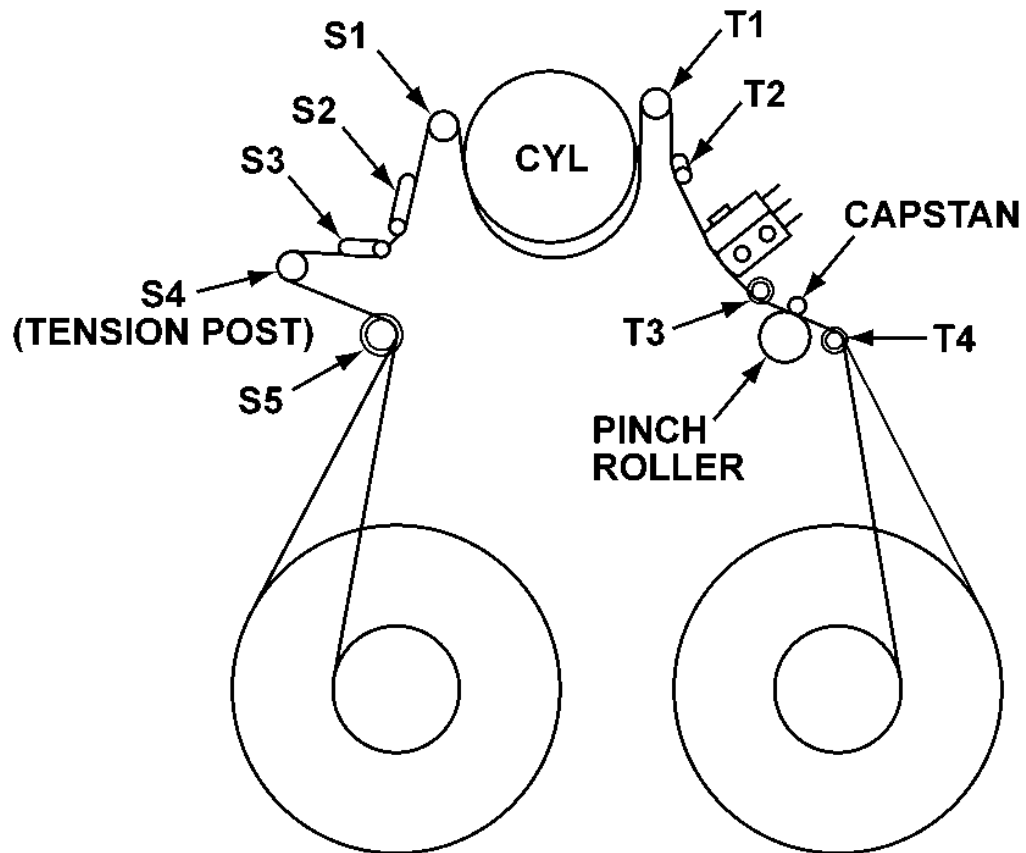
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## 1. Name of Tape Transportation





## 2. Table of Test Point

### 2-1. AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850

#### <Table of Test Point>

Name		Correspondence Model	
		AJ-D750, AJ-D850	AJ-D440, AJ-D450, AJ-D640, AJ-D650
<b>[ Tension Arm Adjustment ]</b>			
TENSION		SERVO (F1) : TP201	←
TENSION OFFSET		MECHA I/F : VR1	←
TENSION GAIN		MECHA I/F : VR2	←
<b>[ Photo Sensor Voltage Adjustment ]</b>			
S-side Output		SYSICON (F2) : P2 – 25PIN	←
T-side Output		SYSICON (F2) : P2 – 26PIN	←
Adjustment Point		MECHA I/F : SW200	←
<b>[ Tape Pass, A/C Head Adjustment ]</b>			
R/P-ENV		RF (H4) : TP16	←
PB/ENV		RF (H4) : TP15	←
R/P-HSW		SERVO (F1) : TP233	←
PB-HSW		SERVO (F1) : TP232	←
LIVE-CTL		SERVO (F1) : TP30	←
CUE		CUE (H2) : TP101	ADDA-CUE (F8) : TP381
<b>[ LISTA Adjustment ]</b>			
ATF ERR		SERVO (F1) : TP321	←
TRG	R/P HSW	SERVO (F1) : TP233	←
	PB HSW	SERVO (F1) : TP232	←
GND		SERVO (F1) : TG510	←
ATF GAIN		Select the EVR on the Service Menu. (Refer to below table <LISTA Adjustment Mode>)	←

#### <A/C Head Adjustment Mode>

Adjustment Name	Adjustment Mode (Select on the Service Menu)
Azimuth, X value Adj.	Select the item "A07 : RP LINEAR P".

#### <LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode	
	Service Menu Item	TRG Connection
Sens. Adjustment R/P Head	"A06 : RP GAIN P"	R/P HSW
Sens. Adjustment PB Head	"A04 : PB GAIN P"	PB HSW
Sens. Adjustment R/P Head (DV)	"A08 : RP GAIN"	R/P HSW
Linearity Adjustment	"A07 : RP LINEAR P"	R/P HSW



## 2-2. AJ-LT75, AJ-LT85

### <Table of Test Point>

Name		AJ-LT75, AJ-LT85	
		VTR 1 (DIGITAL 1 PCB)	VTR 2 (DIGITAL 2 PCB)
<b>[ Tension Arm Adjustment ]</b>			
TENSION		TP35701	TP33001
TENSION OFFSET		"A05 : TENSION OFST" (Service Menu)	←
TENSION GAIN		VR5701	VR3001
<b>[ Photo Sensor Voltage Adjustment for AJ-LT85 only ] ( Refer to Electrical Adjustment on the Service Manual about AJ-LT75. )</b>			
S-Side	Sensor Voltage	TP601	TP61301
	Adjust Point	VR601	VR61301
T-Side	Sensor Voltage	TP602	TP61302
	Adjust Point	VR602	VR61302
<b>[ Tape Pass, A/C Head Adjustment ]</b>			
R/P-ENV		TP5001	←
PB/ENV		TP5101	←
R/P-HSW		TP6001	←
PB-HSW		TP6002	←
CUE		TP40701 (ANALOG 1 PCB)	TP45701 (ANALOG 2 PCB)
LIVE-CTL		TP35705	TP33005
<b>[ LISTA Adjustment ]</b>			
ATF ERR		TP35706	TP33006
TRG	R/P HSW	TP5001	←
	PB HSW	TP5101	←
GND		TG35708	TG3008
ATF GAIN		Select the EVR on the Service Menu. (Refer to below table <LISTA Adjustment Mode>)	←

### <A/C Head Adjustment Mode>

Adjustment Name	Adjustment Mode (Select on the Service Menu)
Azimuth, X value Adj.	Select the item "A09 : RP LINEAR".

### <LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode	
	Service Menu Item	TRG Connection
Sens. Adjustment R/P Head	"A13 : RP GAIN"	R/P HSW
Sens. Adjustment PB Head	"A12 : PB GAIN"	PB HSW
Sens. Adjustment R/P Head (DV)	"A14 : DV GAIN"	R/P HSW
Linearity Adjustment	"A09 : RP LINEAR"	R/P HSW



## 2-3. AJ-D220, AJ-D230, AJ-D230H, AJ-D250

### <Table of Test Point>

Name		Correspondence Models	
		AJ-D220, AJ-D230, AJ-D230H	AJ-D230-E, AJ-D230H-E, AJ-D250
<b>[ Tension Arm Adjustment ]</b>			
TENSION		RF : TP5901	←
TENSION OFFSET		"A05 : TENSION OFST" (Service Menu)	←
TENSION GAIN		VR9501	←
<b>[ Photo Sensor Voltage Adjustment ]</b>			
S-Side	Sensor Voltage	AV SYSCON : TP60001	AV SYSCON : TP60002
	Adjust Point	AV SYSCON : VR60001	AV SYSCON : VR60002
T-Side	Sensor Voltage	AV SYSCON : TP60002	AV SYSCON : TP60001
	Adjust Point	AV SYSCON : VR60002	AV SYSCON : VR60001
<b>[ Tape Pass, A/C Head Adjustment ]</b>			
R/P-ENV		RF : TP5251	←
PB/ENV		"B05 : PB HEAD" on the Service Menu.	
R/P-HSW		RF : TP5759	←
PB-HSW		RF : TP5757	←
CUE		AUDIO : TP4401	AUDIO : TP40701
LIVE-CTL		RF : TP5903	←
<b>[ LISTA Adjustment ]</b>			
ATF ERR		RF : TP5902	←
TRG (R/P HSW)		RF : TP5759	←
GND		RF : TG751	←
ATF GAIN		"A13 : RP GAIN" on the Service Menu.	←

### <A/C Head Adjustment Mode>

Adjustment Name	Adjustment Mode (Select on the Service Menu)
Azimuth, X value Adj.	Select the item "A09 : RP LINEAR".

### <LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode	
	Service Menu Item	TRG Connection
Sens. Adjustment R/P Head	"A13 : RP GAIN"	R/P HSW
Linearity Adjustment	"A09 : RP LINEAR"	R/P HSW



## 2-4. AJ-DE77, AJ-D780

### <Table of Test Point>

Name	Correspondence Model	
	AJ-DE77	AJ-D780
<b>[ Tension Arm Adjustment ]</b>		
TENSION	SERVO (F1) : TP201	←
TENSION OFFSET	MECHA I/F : VR1	←
TENSION GAIN	MECHA I/F : VR2	←
<b>[ Photo Sensor Voltage Adjustment ]</b>		
S-side Output	SYSCON (F2) : P2 – 25PIN	←
T-side Output	SYSCON (F2) : P2 – 26PIN	←
Adjustment Point	MECHA I/F : SW200	←
<b>[ Tape Pass, A/C Head Adjustment ]</b>		
ENV L13	RF (H1) : TP15	RF (H3) : TP15
ENV L24	RF (H1) : TP16	RF (H3) : TP16
ENV R13	RF (H2) : TP15	RF (H4) : TP15
ENV R24	RF (H2) : TP16	RF (H4) : TP16
FP-S0 (FRAME PULSE)	SERVO (F1) : TP301	←
HSW L13	SERVO (F1) : TP722	←
HSW L24	SERVO (F1) : TP723	←
LIVE-CTL	SERVO (F1) : TP30	←
CUE	CUE (H2) : TP101	ADDA-CUE (F8) : TP381
<b>[ LISTA Adjustment ]</b>		
ATF ERR L13	SERVO (F1) : TP732	←
ATF ERR L24	SERVO (F1) : TP833	←
TRG (HSW L13)	SERVO (F1) : TP722	←
GND	SERVO (F1) : TG510	←
ATF GAIN	Select the EVR on the Service Menu. (Refer to below table <LISTA Adjustment Mode>)	←

### <A/C Head Adjustment Mode>

Adjustment Name	Adjustment Mode (Select on the Service Menu)
X Value Correction	AJ-DE77 : "A09 : X VALUE", AJ-D780 : "A06 : X VALUE"

### <LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode	
	Service Menu Item	TRG Connection
Sens. Adjustment R/P Head	"A04 : LR GAIN P"	HSW L13
Linearity Adjustment	"A07 : LR LINEAR P"	HSW L13



## 2-5. AJ-D200, AJ-D210, AJ-D215, AJ-D610, AJ-D700, AJ-D800, AJ-D810

<Table of Test Point>

Name		Correspondence Models					
		AJ-D700, AJ-D800		AJ-D200, AJ-D210, AJ-D215		AJ-D610, AJ-D810	
[ Format Select ]							
Format Select				SERVO SW901	NTSC 1:ON 2:OFF	PAL	
[ Reel Torque Adjustment ]							
S-Side	Reel Voltage	SERVO : TP301	←	←			
	Adjust Point	SERVO : VR502	←	←			
T-Side	Reel Voltage	SERVO : TP302	←	←			
	Adjust Point	SERVO : VR501	←	←			
GND		SERVO : TG300	←	←			
[ Tension Arm Adjustment ]							
TENSION		SERVO : TP402	←	←			
TENSION OFFSET		SERVO : VR402	←	←			
TENSION GAIN		SERVO : VR401	←	←			
[ Photo Sensor Voltage Adjustment ]							
S-Side	Sensor Voltage		SERVO : TP503	←			
	Adjust Point		SERVO : VR503	←			
T-Side	Sensor Voltage		SERVO : TP504	←			
	Adjust Point		SERVO : VR504	←			
[ Tape Pass, A/C Head Adjustment ]							
RP-ENV		RF : TP500	←	←			
RP-HSW		RF : TP300	←	←			
CUE		LCD : TP505	JACK : TP2	LCD : TP505			
LIVE-CTL		SERVO : TP107	←	←			
[ PG Shifter Adjustment ]							
TSR		SERVO : TP501	←	←			
SPA		SERVO : TP102	←	←			
PG SHIFT		SERVO : VR101	←	←			
[ LISTA Adjustment ]							
ATF ERR		SERVO : TP115	←	SERVO : TP601			
TRG (R/P HSW)		SERVO : TP113	←	←			
GND		SERVO : TG300	←	←			
ATF GAIN		LISTA Software	←	←			

<How to set the Reel Adjustment Mode>

Adjustment Name	Adjustment Mode	
	Adjustment Mode Name	Mode Change Procedure
Reel Torque Adjustment	Reel Adjustment Mode	(1) Short the TP505 and TP116 with power OFF. (2) Turn ON the power and playback.

<How to set the LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode	
	Adjustment Mode Name	Mode Change Procedure
Sens. Adjustment (R/P Head)	"RP GAIN P"	(1) Short the TP902 and TP116 with power OFF. (2) Turn ON the power and playback.



Linearity Adjustment	"RP LINEAR P"	(1) Short the TP902, TP116 and TP101 with power OFF. (2) Turn ON the power and playback.
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## 2-6. AJ-D950, AJ-D950A

### <Table of Test Point>

Name		AJ-D950, AJ-D950A
<b>[ Tension Arm Adjustment ]</b>		
TENSION		SERVO (F1) : TP201
TENSION OFFSET		MECHA I/F : VR1
TENSION GAIN		MECHA I/F : VR2
<b>[ Photo Sensor Voltage Adjustment ]</b>		
S-side Output		SYSCON (F2) : P2 – 25PIN
T-side Output		SYSCON (F2) : P2 – 26PIN
Adjustment Point		MECHA I/F : SW200
<b>[ Tape Pass, A/C Head Adjustment ]</b>		
R/P-ENV L		RF (H3) : TP201
R/P-ENV R		RF (H4) : TP201
PB-ENV L		RF (H3) : TP101
PB-ENV R		RF (H4) : TP101
FP-S0 (FRAME PULSE)		SERVO (F1) : TP301
R/P-HSW L		SERVO (F1) : TP722
PB-HSW L		SERVO (F1) : TP723
LIVE-CTL		SERVO (F1) : TP30
CUE		CUE (H1) : TP101
<b>[ LISTA Adjustment ]</b>		
ATF ERR		SERVO (F1) : TP732
TRG	R/P-HSW L	SERVO (F1) : TP722
	PB-HSW L	SERVO (F1) : TP723
GND		SERVO (F1) : TG510
ATF GAIN		Select the EVR on the Service Menu. (Refer to below table <LISTA Adjustment Mode>)

### <A/C Head Adjustment Mode>

Adjustment Name	Format Select	Adjustment Mode (Select on the Service Menu)
Azimuth, X Value Adj.	25M	Select the item "A10 : RP LINEAR DP".
	50M	Select the item "A06 : RP LINEAR ED".

### <LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode		
	Format Select (LISTA Software)	Service Menu Item	TRG Connection
Sens. Adjustment (R/P Head)	50M mode	"A05 : RP GAIN ED"	R/P-HSW L
Linearity Adjustment		"A06 : RP LINEAR ED"	R/P-HSW L
Sens. Adjustment (PB Head)		"A07 : PB GAIN ED"	PB-HSW L
Sens. Adj. (R/P Head) 25M compatible	25M mode	"A09 : RP GAIN DP"	R/P-HSW L
Linearity Adjustment 25M compatible		"A10 : RP LINEAR DP"	R/P-HSW L
Sens. Adj. (PB Head) 25M compatible		"A11 : PB GAIN DP"	PB-HSW L



## 2-7. AJ-D90, AJ-D900, AJ-D910WA, AJ-PD900

### <Table of Test Point>

Name		AJ-D90, AJ-D900, AJ-D910WA, AJ-PD900
[ Reel Torque Adjustment ]		
S-Side	Reel Voltage	SERVO : TP301
	Adjust Point	SERVO : VR502
T-Side	Reel Voltage	SERVO : TP302
	Adjust Point	SERVO : VR501
GND		SERVO : TG300
[ Tension Arm Adjustment ]		
TENSION		SERVO : TP402
TENSION OFFSET		SERVO : VR402
TENSION GAIN		SERVO : VR401
[ Photo Sensor Voltage Adjustment ]		
S-Side	Sensor Voltage	SERVO : TP503
	Adjust Point	SERVO : VR503
T-Side	Sensor Voltage	SERVO : TP504
	Adjust Point	SERVO : VR504
[ Tape Pass, A/C Head Adjustment ]		
R/P-ENV L		RF : CONNECTOR P4 (Distributed by BER Counter Tool.)
PB-ENV L		
R/P-HSW L		
PB-HSW L		
R/P-ENV R		RF : CONNECTOR P5 (Distributed by BER Counter Tool.)
PB-ENV R		
R/P-HSW R		
PB-HSW R		
CUE		LCD : TP505
LIVE-CTL		SERVO : TP107
[ LISTA Adjustment ]		
ATF ERR		SERVO : TP601
TRG (R/P-HSW)		SERVO : TP113
GND		SERVO : TG300
ATF GAIN		EVR

### NOTE

SW setting for Format Select  
(SERVO PCB)

		NTSC	PAL
SW901	1	OFF	OFF
	2	OFF	ON

Connector	Pin Position
P4	5 : HID RP L
	6 : D GND
	7 : RP ENV L
	8 : PB ENV L
	9 : A GND
P5	5 : HID RP R
	6 : D GND
	7 : RP ENV R
	8 : PB ENV R
	9 : A GND

### <How to set the Reel Adjustment Mode>

Adjustment Name	Adjustment Mode	
	Mode Name	Mode Change Procedure
Reel Torque Adjustment	Reel Adjustment Mode	(1) Short the TP505 and TP116 with power OFF. (2) Turn ON the power and playback.

### <how to set the LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode		
	Mode Name	Format Select (LISTA Software)	TRG Connection
Sensitivity Adj. (R/P)	"RP GAIN ED"	50M mode	(1) Short the TP902 and TP116 with power OFF. (2) Turn ON the power and playback.
Linearity Adj.	"RP LINEAR ED"		(1) Short the TP902,TP116 and TP101 with power OFF. (2) Turn ON the power and playback.
Sensitivity Adj. (R/P) 25M compatible	"RP GAIN DP"	25M mode	(1) Short the TP902 and TP116 with power OFF. (2) Turn ON the power and playback.
Linearity Adjustment 25M compatible	"RP LINEAR DP"		(1) Short the TP902,TP116 and TP101 with power OFF. (2) Turn ON the power and playback.



## 2-8. AJ-D92, AJ-D94, AJ-D95DC

### <Table of Test Point>

Name	Correspondence Model	
	AJ-D95DC	AJ-D92, AJ-D94
<b>[ Tension Arm Adjustment ]</b>		
TENSION	RF : TP11	RF : TP1
TENSION OFFSET	"A05 : TENSION OFST" (Service Menu)	←
TENSION GAIN	AV SYS : VR1103	AV SYS : VR1101
<b>[ Photo Sensor Voltage Adjustment ]</b>		
S and T Sensor Voltage	"I02 : S PHOTO / T PHOTO" (Display on the Service Menu)	←
S-side Adjustment Point	AV SYS : VR1102	←
T-side Adjustment Point	AV SYS : VR1101	AV SYS : VR1103
<b>[ Tape Pass, A/C Head Adjustment ]</b>		
R/P-ENV L	RF : TP401	←
PB-ENV L	(R/P or PB ENV Change on the Service Menu)	
R/P-ENV R	RF : TP501	←
PB-ENV R	(R/P or PB ENV Change on the Service Menu)	
R/P-HSW L	RF : TP903	←
PB-HSW L	RF : TP905	←
LIVE-CTL	RF : TP12	RF : TP2
CUE	AUDIO : TP40501	AUDIO : TP102
<b>[ LISTA Adjustment ]</b>		
ATF ERR	RF : TP13	RF : TP3
TRG	R/P-HSW L	←
	PB-HSW L	←
GND	RF : TG901	←
ATF GAIN	Select the EVR on the Service Menu. (Refer to below table <LISTA Adjustment Mode>)	

### <A/C Head Adjustment Mode>

Adjustment Name	Format Select	Adjustment Mode (Select on the Service Menu)
Azimuth, X Value Adj.	25M	Select the item "A13 : RP LIN 25M"
	50M	Select the item "A09 : RP LIN 50M"

### <LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode		
	Format Select (LISTA Software)	Service Menu Item	TRG Connection
Sens. Adjustment (R/P Head)	50M mode	"A08 : RP GAIN 50M"	R/P-HSW L
Linearity Adjustment		"A09 : RP LIN 50M"	R/P-HSW L
Sens. Adjustment (PB Head)		"A10 : PB GAIN 50M"	PB-HSW L
Sens. Adj. (R/P Head) 25M compatible	25M mode	"A12 : RP GAIN 25M"	R/P-HSW L
Linearity Adjustment 25M compatible		"A13 : RP LIN 25M"	R/P-HSW L
Sens. Adj. (PB Head) 25M compatible		"A14 : PB GAIN 25M"	PB-HSW L



## 2-9. AJ-D940

### <Table of Test Point>

Name		AJ-D940
<b>[ Tension Arm Adjustment ]</b>		
TENSION		SERVO (F1) : TP201
TENSION OFFSET		MECHA I/F : VR1
TENSION GAIN		MECHA I/F : VR2
<b>[ Photo Sensor Voltage Adjustment ]</b>		
S-side Output		SYSCON (F2) : P2 – 25PIN
T-side Output		SYSCON (F2) : P2 – 26PIN
Adjustment Point		MECHA I/F : SW200
<b>[ Tape Pass, A/C Head Adjustment ]</b>		
PB-ENV L13		RF (H3) : TP17
PB-ENV L24		RF (H3) : TP19
PB-ENV R13		RF (H4) : TP17
PB-ENV R24		RF (H4) : TP19
DV-ENV L12		RF (H2) : TP17
DV-ENV R12		RF (H2) : TP19
TSR		SERVO (F1) : TP300
FP-S0 (FRAME PULSE)		SERVO (F1) : TP301
PB-HSW L13		SERVO (F1) : TP722
PB-HSW L24		SERVO (F1) : TP723
PB-HSW R13		SERVO (F1) : TP724
PB-HSW R24		SERVO (F1) : TP725
DV-HSW L12		SERVO (F1) : TP902
DV-HSW R12		SERVO (F1) : TP901
LIVE-CTL		SERVO (F1) : TP30
CUE		CUE (H1) : TP101
<b>[ LISTA Adjustment ]</b>		
ATF ERR L		SERVO (F1) : TP732
ATF ERR R		SERVO (F1) : TP734
TRG	PB-HSW L13	SERVO (F1) : TP722
	DV-HSW R12	SERVO (F1) : TP901
GND		SERVO (F1) : TG510
ATF GAIN		Select the EVR on the Service Menu. (Refer to below table <LISTA Adjustment Mode>)

### <A/C Head Adjustment Mode>

Adjustment Name	Format Select	Adjustment Mode (Select on the Service Menu)
Azimuth, X Value Adj.	50M	Select the item "A05 : PBL13 LINEAR"

### <LISTA Adjustment Mode>

Adjustment Name	Adjustment Mode			
	Format Select (LISTA Software)	Service Menu Item	Connection Point	
			ATF ERR	TRG
Sens. Adj. (DVL Head)	50M mode	"A10 : DVL GAIN"	ATF ERR L	DV-HSW L12
Linearity Adjustment		"A11 : DVL LINEAR"		
Sens. Adj. (PBL Head)		"A04 : PBL13 GAIN"	ATF ERR R	PB-HSW L13
Sens. Adj. (PBR Head)		"A08 : PBR13 GAIN"		PB-HSW R13
Sens. Adj. (DVR Head)		"A12 : DVR GAIN"		DV-HSW R12

### <CTL Control Mode>

Adjustment Name	Format Select	Adjustment Mode (Select on the Service Menu)
ENV Waveform Confirmation	25M (CTL control)	"A14 : ENV SEL 25M" "A15 : TRK VAL 25M"



### 3. Mechanical Adjustment Procedure

#### 3-1. Post Height Pre-adjustment

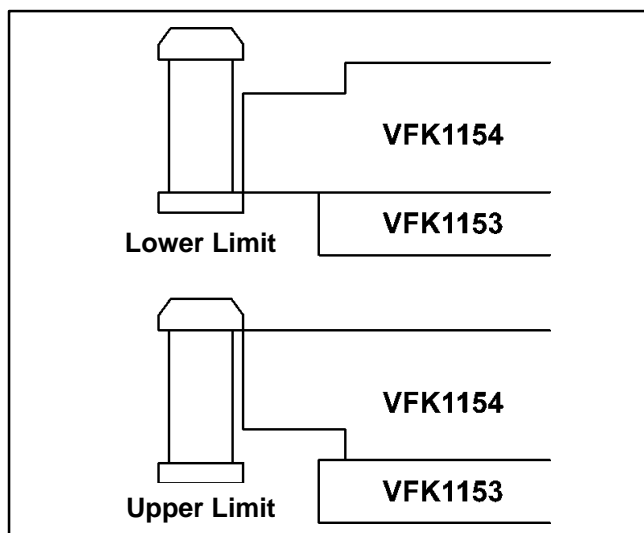
<b>MODE</b>	EJECT (POWER OFF)
<b>TOOL</b>	VFK1153 (Mech. Neutral Plate) VFK1154 (Post Height Fixture)

1. Confirm that the Reel Table is located at M-Cassette position.
2. Install the Mech. Neutral Plate (VFK1153) and adjust each post height as shown in figure.
3. Adjust the each post to Lower limit by VFK1154 as shown in figure.
4. VFK1149 use for Post height adjustment of S4 and S5 post. VFK1151 use for Post height adjustment of T3 and T4 post.

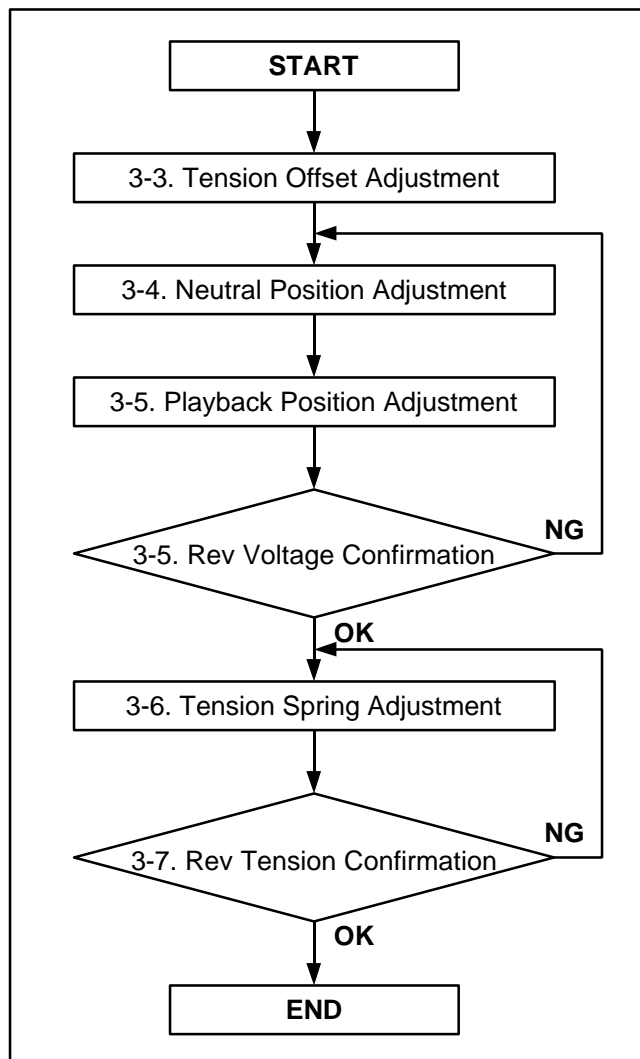
Post	Limit	Post Driver
S5 Post	Lower : <b>NOTE</b>	VFK1149
S4 Post	Lower : <b>NOTE</b>	VFK1149
T3 Post	Lower	VFK1151(2.5mm Nut Driver)
T4 Post	Lower	VFK1151(2.5mm Nut Driver)

#### NOTE :

Turn S4 and S5 posts 1 round more counterclockwise from lower limit.



#### 3-2. Tension Adjustment Flowchart





### 3-3. Tension Arm Offset Adjustment

<b>SPEC</b>	2.5 V $\pm$ 0.05 V
<b>TEST POINT</b>	Tension: Refer to item "2. Table of Test Point"
<b>ADJ.</b>	Tension Offset : Refer to item "2. Table of Test Point"
<b>MODE</b>	EJECT
<b>TOOL</b>	Digital Volt Meter

1. Confirm that the DC voltage at Test Point is within specification.
2. If it out of spec, Adjust adjustment VR so that the DC voltage is within specification.

### 3-4. Tension Arm Neutral Position Adjustment

<b>SPEC</b>	2.5 V $\pm$ 0.1 V
<b>TEST POINT</b>	Tension : Refer to table of Test Point
<b>ADJ.</b>	Base position of Tension Regulator Board
<b>MODE</b>	STOP
<b>TOOL</b>	Digital Volt Meter VFK1208 (black with hole)

#### NOTE 1 :

Regarding to no tape loading procedure, refer to item "4. No Tape Loading procedure". And if the model number does not mentioned on Classified list, refer to Service manual about procedure.

#### NOTE 2 :

Do not use magnetized tweezers and Screw driver.

Do not touch the magnetize Screw driver to S-Reel FG magnet portion, when the lever (D) portion is adjusting.

#### <In case of model except CAM CORDER>

1. Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
2. Disconnect the connector P3 on the Carriage Board of the Front Loading Unit.
3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit as shown in figure 3-4-



**<In case of model CAM CORDER>**

1. Remove the Cassette Up Unit.

**<Common procedure>**

1. Set the VFK1208 (black with hole) as position as shown in figure 3-4-2.
2. Connect the Digital Volt Meter to Test point.
3. Place the unit into the no tape loading mode.
4. Loosen the screw (A) and move the lever (D) with tweezers for adjust the sensor position so that the DC voltage at Test Point is within specification.

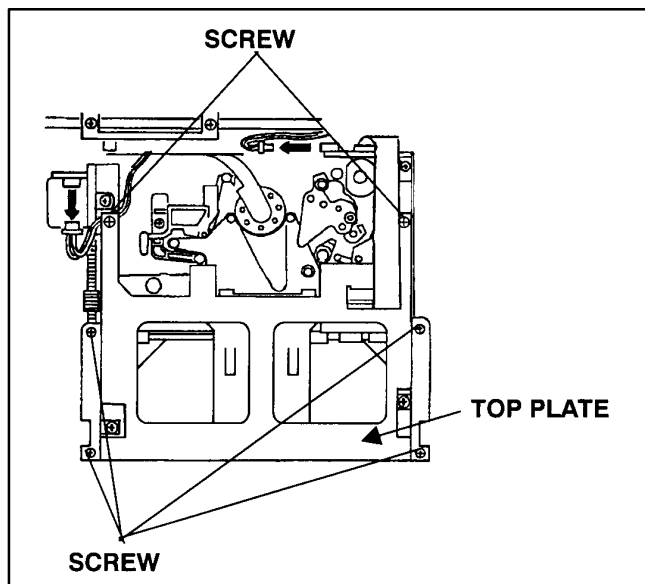


Figure 3-4-1

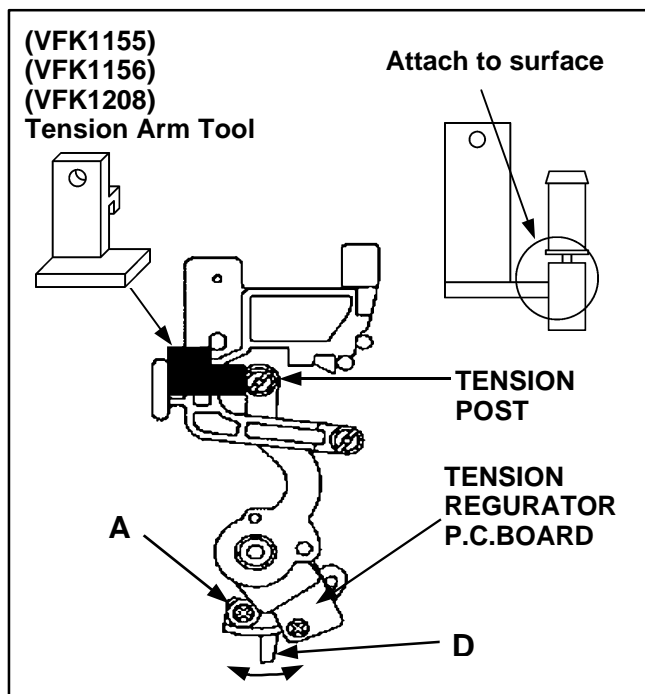


Figure 3-4-2



### 3-5. Tension Arm PLAY and REV Voltage Adjustment and Confirmation

<b>SPEC</b>	PLAY : 3.8 V $\pm$ 0.05 V REV : 1.2 V $\pm$ 0.3 V
<b>TEST POINT</b>	Tension : Refer to item "2. Table of Test Point"
<b>ADJ.</b>	Tension Gain : Refer to item "2. Table of Test Point"
<b>MODE</b>	STOP
<b>TOOL</b>	Digital Volt Meter VFK1156 (Black: for PLAY position) VFK1155 (Silver: for REV position)

#### <In case of model except CAM CORDER>

1. Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
2. Disconnect the connector P3 on the Carriage Board of the Front Loading Unit.
3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit as shown in figure 3-4-1.

#### <In case of model CAM CORDER>

1. Remove the Cassette Up Unit.

#### < Common procedure >

1. Set VFK1156 (black) as position as shown in figure 3-4-2.
2. Place the unit into the no tape loading mode.
3. Confirm that the DC voltage at Test point is within specification (PLAY).
4. If it out of spec, adjust the Adjustment VR so that the DC voltage is within specification (PLAY).
5. Set VFK1156 (Silver) as position as shown in figure 3-4-2.
6. Place the unit into the no tape loading mode.
7. Confirm that the DC voltage at Test point is within specification.
8. If it out of spec, perform the Tension Arm Position Adjustment again.

### 3-6. Tension Regulator Spring Adjustment

<b>SPEC</b>	108 mN-m (11gf)
<b>TEST POINT</b>	Tension : Refer to item "2. Table of Test Point"
<b>ADJ.</b>	Tension Regulator Spring hook (B)
<b>MODE</b>	STOP
<b>TOOL</b>	VFK1188 (Dial Tension Gauge) Digital Volt Meter

#### <In case of model except CAM CORDER>

1. Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
2. Disconnect the connector P3 on the Carriage Board of the Front Loading Unit.
3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit as shown in figure 3-4-1.

#### <In case of model CAM CORDER>

1. Remove the Cassette Up Unit.

#### < Common procedure >

1. Place the VTR into no tape loading mode.
2. Insert the tension gauge to push the tension post to the direction R until the voltage at the Test Point is 3.8V (PLAY position).
3. Loosen the screw (C) and adjust the position of hook (B) so that the indication of gauge is within specification.

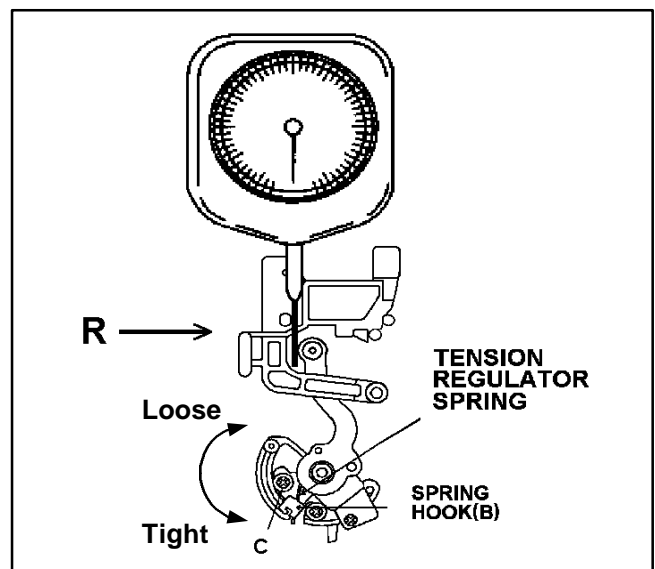


Figure 3-6



### 3-7. REV Tension Confirmation

<b>SPEC</b>	176mN $\pm$ 20mN (18gf $\pm$ 2gf)
<b>TEST POINT</b>	Tension : Refer to item "2. Table of Test Point"
<b>MODE</b>	STOP
<b>TOOL</b>	VFK1188 (Dial Tension Gauge) Digital Volt Meter

#### <In case of model except CAM CORDER>

1. Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
2. Disconnect the connector P3 on the Carriage Board of the Front Loading Unit.
3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit as shown in figure 3-4-1.

#### <In case of model CAM CORDER>

1. Remove the Cassette Up Unit.

#### <Common Procedure>

1. Place the VTR into no tape loading mode.
2. Insert the tension gauge to push the tension post to the direction R until the voltage at the Test Point is 1.2V (REV position).
3. Confirm that the indication of gauge is within specification. If not, make the Tension Spring Adjustment again.
4. After finish this adjustment, grew the screw A, B and C. The grew quantity at B is half of A and C.

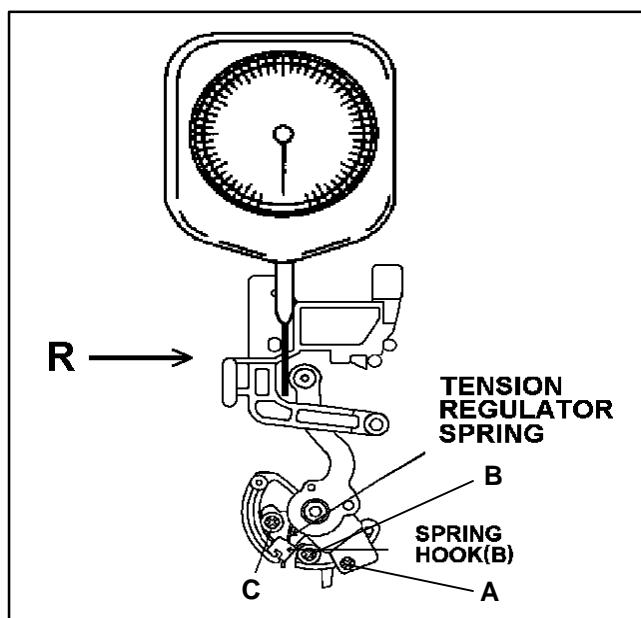


Figure 3-7



### 3-8. Tension Confirmation

<b>SPEC</b>	PLAY : 59mN $\pm$ 10mN (6gf $\pm$ 1gf) REV : 88mN $\pm$ 20mN (9gf $\pm$ 2gf)
<b>MODE</b>	PLAY, REV $\times$ 1
<b>TAPE</b>	63 min M size blank tape 123min. L size blank tape (AJ-D200, AJ-D210, AJ-D215)
<b>TOOL</b>	VFK1145 (Tension Meter)

- ◆ Please confirm that the calibration of Tension Meter before measurement of tension value follow below procedure.

#### <Calibration of Tension Meter>

1. Connect the 7 grams calibration weight to DVCPRO tape. (It tape and weight are included to VFK1145.)
  2. Set the above tape to the Tension Meter as shown in figure 3-8-1.
  3. Pull up the tape as speed 33mm/sec and adjust the Tension Meter so that the meter shows 7 grams.
- ◆ With tape pass direction should be the same direction of tape transportation under the VTR, when confirm the Tension Meter as shown in figure 3-8-1.

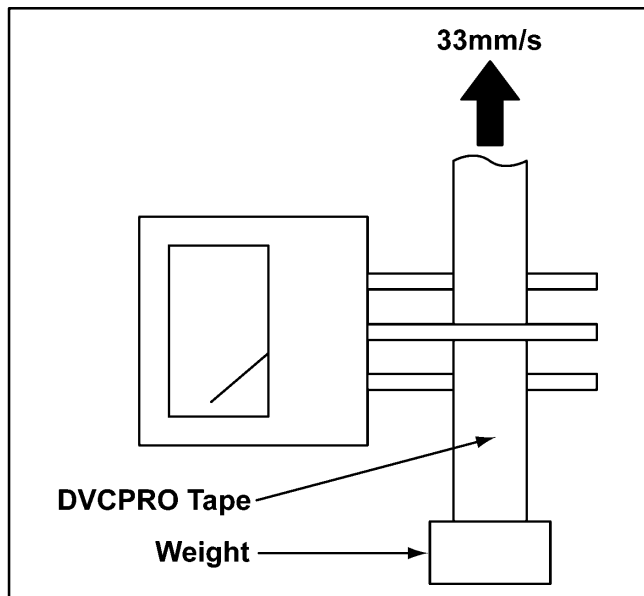


Figure 3-8-1

1. Play back beginning portion of the tape.
2. Insert the tension meter to between S3 post and S4 post as shown in figure 3-8-2.
3. Confirm that the tension value is within specification.

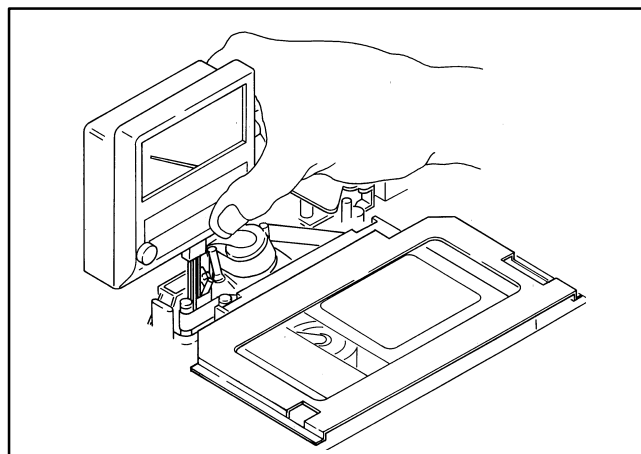


Figure 3-8-2

4. Place the unit in REV mode.
5. Insert the tension meter to between S4 post and S5 post as shown in figure 3-8-3.
6. Confirm that the tension value is within specification. (Read the meter display from rear side as shown in figure 3-8-3.)
7. If it out of specification, please perform the Tension Arm Adjustment.

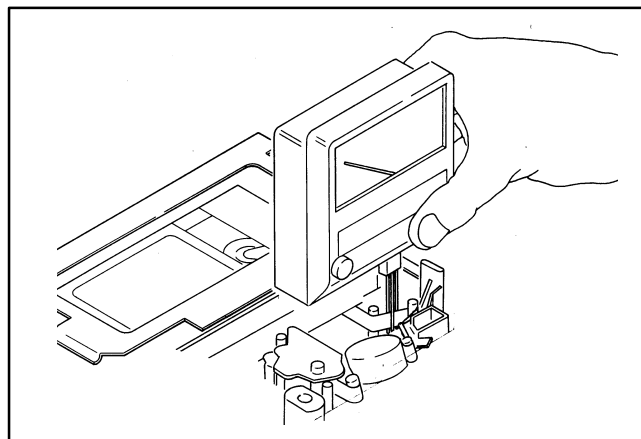


Figure 3-8-3

#### NOTE :

Be careful not to give some tape damage.



### 3-9. Photo Sensor Voltage Adjustment

<b>SPEC</b>	See below
<b>TEST POINT</b>	Refer to item "2. Table of Test Point"
<b>ADJ.</b>	Refer to item "2. Table of Test Point"
<b>MODE</b>	STOP
<b>TAPE</b>	VFK1423 (Tape Beg./End M Cassette) VFK1369 (Tape Beg./End L Cassette)
<b>M. EQ</b>	Oscilloscope

#### (Specification)

TYPE	Specification of voltage
<b>A</b>	A = 3.1 VDC $\pm$ 4.2 VDC
<b>B</b>	A = 3.2 VDC $\pm$ 0.8 VDC
<b>C</b>	A = 2.2 VDC $\pm$ 0.6 VDC

#### (Classified list of specification)

TYPE	Model
<b>A</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D780, AJ-D850, AJ-D940, AJ-D950, AJ-D950A, AJ-DE77
<b>B</b>	AJ-D200, AJ-D210, AJ-D215, AJ-D610 AJ-D810, AJ-D90, AJ-D900W AJ-D900WA, AJ-PD900W
<b>C</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-D92, AJ-D94, AJ-D95DC, AJ-LT75 AJ-LT85

1. Insert the VFK1423 or VFK1369 (in case of AJ-D200, AJ-D210 and AJ-D215) and measure the voltage at Test Point.
2. Adjust the adjustment VR or Dip SW so that the A portion of DC voltage is within the specification as shown in figure 3-9-1.

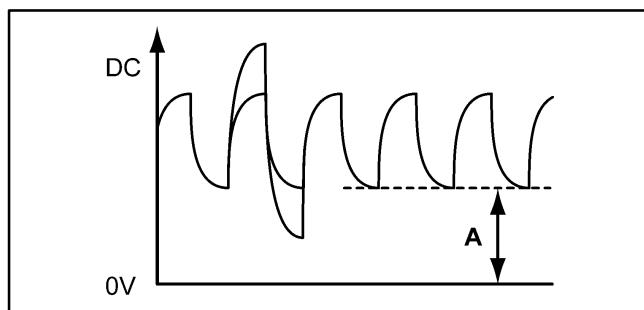


Figure 3-9-1

#### NOTE 1 :

If the model apply to TYPE A, please confirm that the value of resistor R11 and R12 are 8200 ohm on SYSCON (F2) P.C.Board before perform this adjustment.

#### NOTE 2 :

Photo sensor voltage is adjusted by Dip SW200 about Type A models. How set the bit of Dip SW for adjustment indicated as below figure 3-9-2.

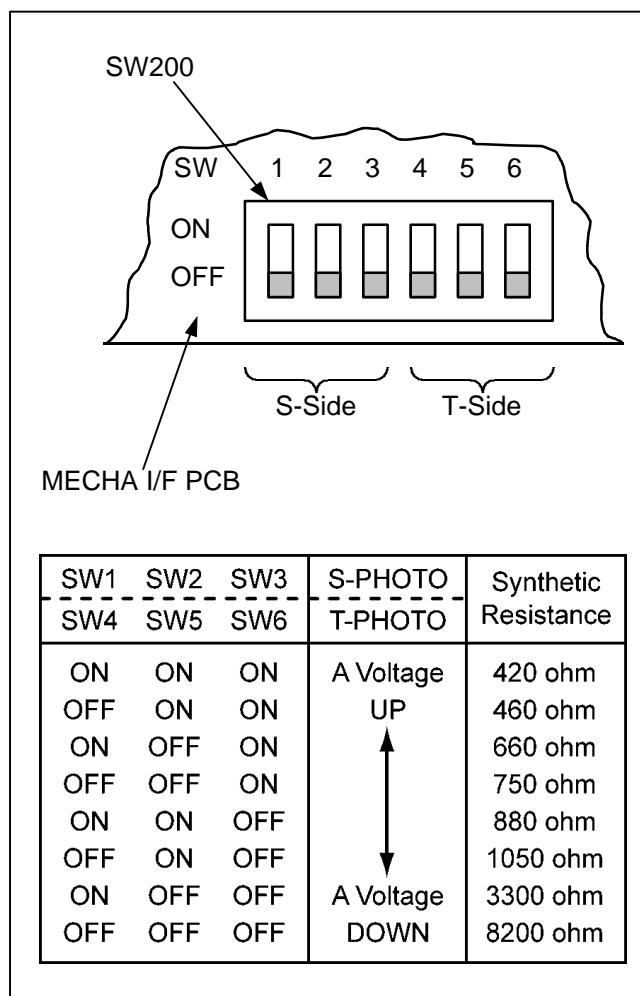
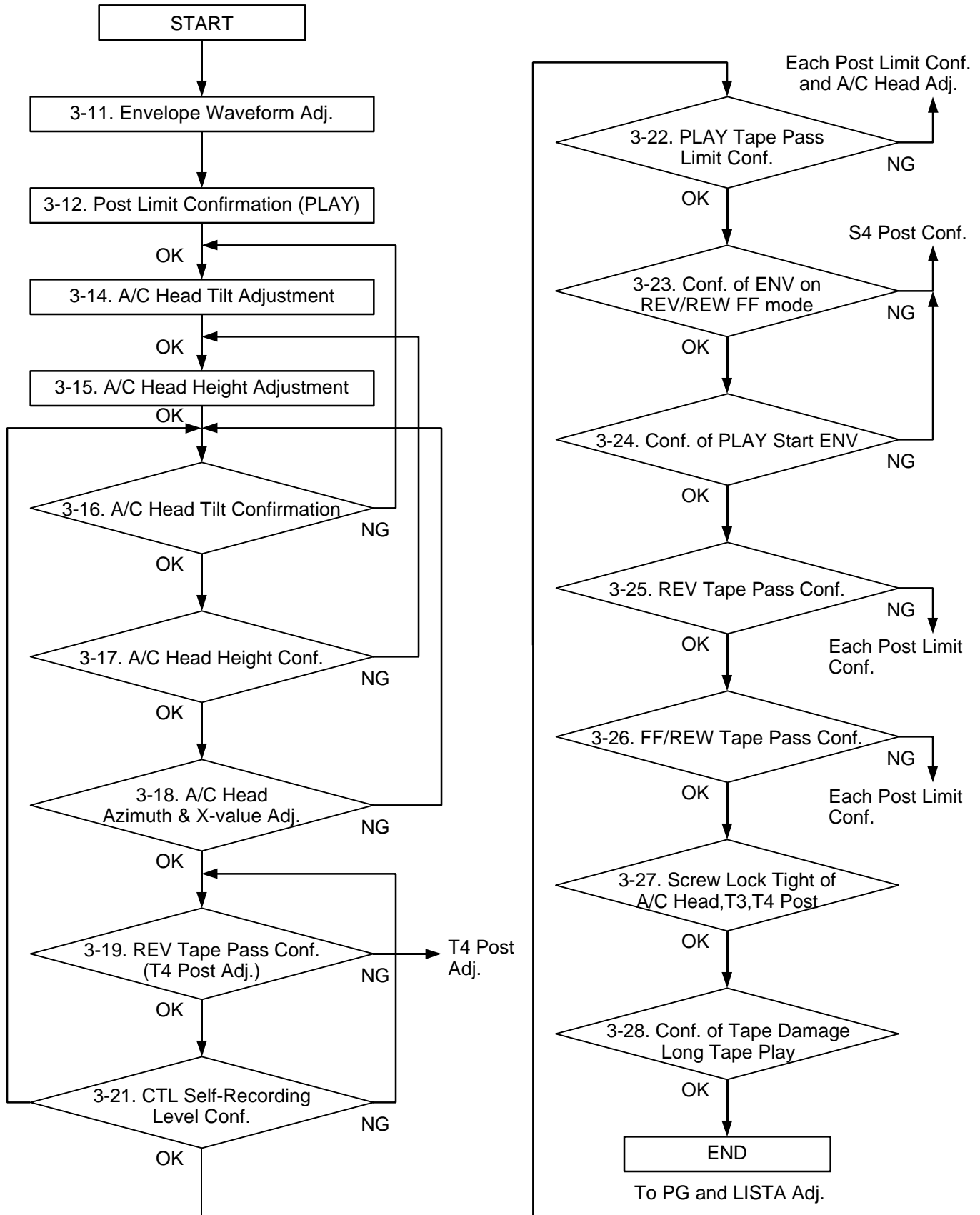


Figure 3-9-2



## 3-10. Tape Pass Adjustment Procedure





### 3-11. Envelope Waveform Adjustment

<b>SPEC</b>	V1/Vmax, V2/Vmax, V3/Vmax ≥ 0.8	
<b>TEST POINT</b>	Refer to Table 3-11-2 and item "2. Table of Test Point"	
<b>ADJ.</b>	S1, T1 Post Height	
<b>MODE</b>	PLAY (ATF)	
<b>TAPE</b>	<b>NTSC</b> : VFM3580KM or VFM3580KL <b>PAL</b> : VFM3680KM or VFM3680KL	
<b>M.EQ</b>	Oscilloscope	
<b>TOOL</b>	<b>TYPE</b>	
	Except <b>F</b>	VFK1149 (Post Driver)
	<b>F</b>	VFK1149 (Post Driver) VFK1185 (BER COUNTER) VFK1158A (BER COUNTER CABLE)

#### (Classified list for ENV adjustment)

TYPE	Model
<b>A</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850
<b>B</b>	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D610
<b>C</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-LT75, AJ-LT85
<b>D</b>	AJ-DE77, AJ-D780
<b>E</b>	AJ-D950, AJ-D950A
<b>F</b>	AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA
<b>G</b>	AJ-D92, AJ-D94, AJ-D95DC
<b>H</b>	AJ-D940

Table 3-11-1

#### [ Connection to BER COUNTER ]

When confirm the RF envelope signal with model of TYPE F, it required the BER COUNTER is connected to CAM CORDER as shown in figure 3-11-1.

< In case of confirm the ENV Lch >

Connect the BER COUNTER CABLE to P4 connector on RF P.C.Board.

< In case of confirm the ENV Rch >

Connect the BER COUNTER CABLE to P5 connector on RF P.C.Board.

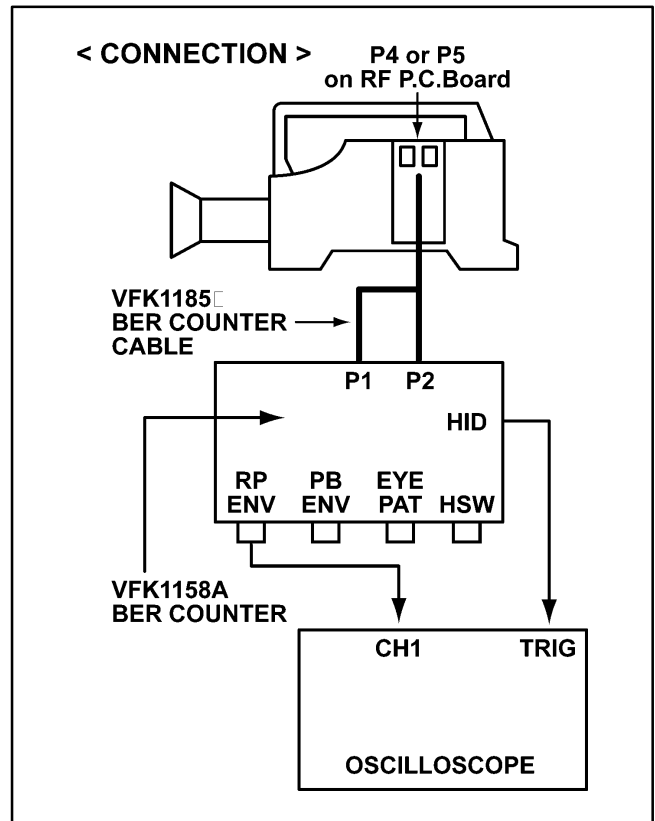


Figure 3-11-1

#### (Table of connected signal)

TYPE	Connected signal	TEST POINT
<b>A, B, C</b>	RP ENV	Refer to (Table of Test Point)
	RP HSW (TRIG)	
<b>D</b>	ENV L13	
	HSW L13 (TRIG)	
<b>E</b>	RP ENV L	
	RP ENV R	
	RP HSW L (TRIG)	
<b>F, G</b>	R/P ENV L	
	R/P ENV R	
	R/P HSW L (TRIG)	
	R/P HSW R (TRIG)	
<b>H</b>	PB ENV L13	
	PB ENV R13	
	PB HSW L13 (TRIG)	
	PB HSW R13 (TRIG)	

Table 3-11-2



### [ Adjustment Procedure ]

1. If case of model of TYPE E, F, G and H, adjust both channels envelope by connect the test point alternately Lch and Rch.
2. In case of AJ-D940, open the SERVO ADJUST MENU on Service Menu and select the item "A14 : END SEL 25M". (this item should be set to PBL13.)
3. Playback the alignment tape.
4. Adjust S1 and T1 post height so that the envelope signal is within the specification.
5. When the S1 and T1 posts are adjusted, first raise the post height and make small the entrance and exit side of the envelope, then down the post until envelope becomes flat.
6. With order to adjustment, basically adjust T1 post for makes flat at exit side of envelope first and adjust S1 post.
7. After finish this adjustment, unload the tape and load the tape again, then confirm the shape of Envelope waveform does not changed.

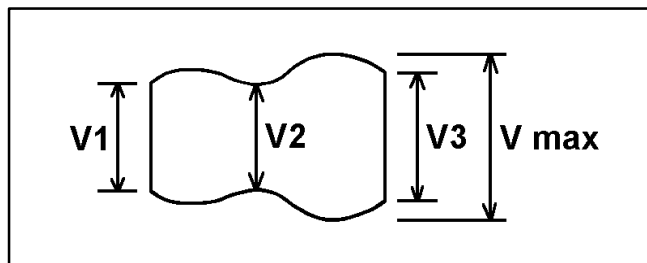


Figure 3-11-2

### 3-12. Post Limit Confirmation (PLAY)

<b>SPEC</b>	Post limit shown in the table curl does not appear on tape edge
<b>MODE</b>	PLAY
<b>TAPE</b>	Blank tape
<b>TOOL</b>	VFK1149 (Post Driver) VFK1151 (Nut Driver)

1. Confirm that the tape pass limit follow the as shown as below table and adjust it in case of need.
2. Confirm that the kinds of D, E and F condition do not appeared on the tape as shown in figure.

Post	Limit	Adjustment
S5	Lower limit or Free	S5 Post Height
S4	Lower Limit	S4 Post Height
S1	Upper Limit	Envelope waveform
T1	Upper Limit	Envelope waveform
T3	Lower Limit	T3 Post Height
T4	Lower limit or Free	T4 Post Height

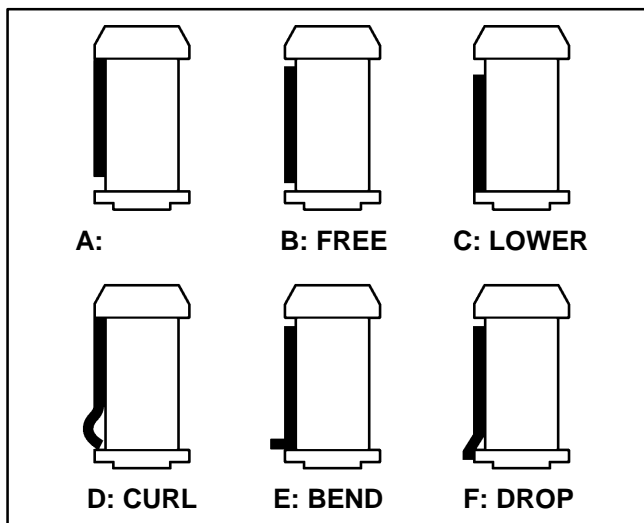


Figure 3-12



### 3-13. A/C Head Adjustment Method (General)

Adjustment item	SCREW	Adjustment Method	Torque
Tilt adjustment	A	① Adjust screw A after loosen screw G. Tighten direction : Decrease Cue level Loosen direction : Increase Cue level ② Tighten screw G after finish adjustment screw A. (refer to below item "Azimuth adjustment fixed screw")	
Height adjustment	B	Tighten direction : In case of increase CTL, when A/C Head Press down. Loosen direction : In case of increase CTL, when A/C Head lift up <b>NOTE 1</b> : Please refer to figure 3-13-3 with portion at lift up and press down to A/C Head.	
Azimuth adjustment	F	① Phase is adjusted by screw F after loosen screw G ② Tighten screw G after finish adjustment screw F. (refer to below item "Azimuth adjustment fixed screw")	
X-value adjustment	C, D	① Adjust X-value by VFK0357 at Hole (E), then tighten the screw (C) and (D) to fix A/C Head horizontal position. ② Hit a portion at A/C Head Top Plate as shown in figure 3-13-4 for confirm the phase is shift.	24.5cN-m (2.5Kg-cm)
Azimuth adjustment fixed screw	G	Screw (G) is always tighten during adjustment except Tilt and Azimuth Adjustment.	19.5cN-m (1.0Kg-cm)
Fixed height	H	After height adjustment, tighten the screw (H) to fix height of A/C Head. Normally the CUE level is decrease, when the screw (H) is tighten. In this case, tighten the screw (H) at the position of turn angle 10 to 15 degree counter clockwise from the position at adjustment finished for keep the maximum level.	

SCREW	Tool for adjustment
A	VFK1178 (0.89mm Hex Driver)
B	VFK1150 (5.5mm Nut Driver)
F	VFK1148 (1.5mm Hex Driver)
C, D, G	VFK1209 (Torque Driver), VFK1148 (1.5mm Hex Driver) VFK1375 (1.5mm Post Axis Driver)
H	VFK1190 (1.5mm L type of Hex Wrench)



1. With Tilt and Azimuth adjustment, loosen screw (G) first and tighten screw (G) after finish adjustment. And if turn screw (A) and (F) too much for adjustment, tighten screw (A), (F) and (G) alternately.

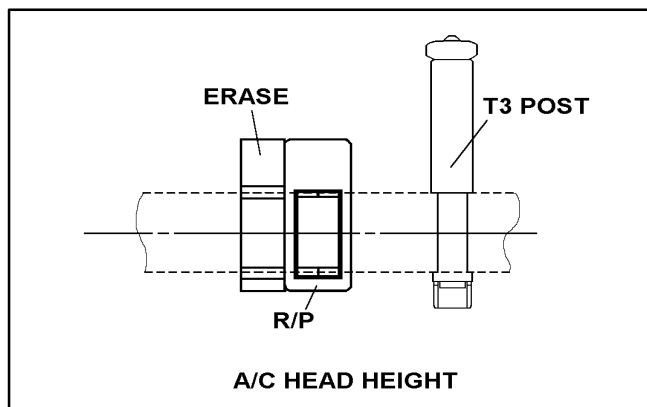


Figure 3-13-1

2. Perform the Height and X-value adjustment under the screw (G) tighten completely.
3. Be careful the tape damage at T3 Post, when adjust tilt of A/C Head. (refer to figure 3-13-1)

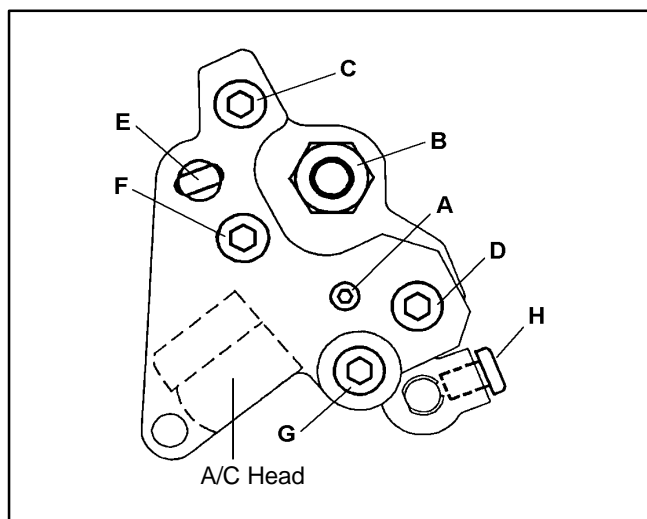


Figure 3-13-2

4. Confirm the screw (A) does not loosen, before execute the A/C Head Tilt adjustment. The screw (A) should be always touch to top of A/C Head.
5. When the height of A/C Head is adjusted by Nut (B), first the screw (H) should be loosen. And after height adjustment finished, tighten the screw (H) lightly.

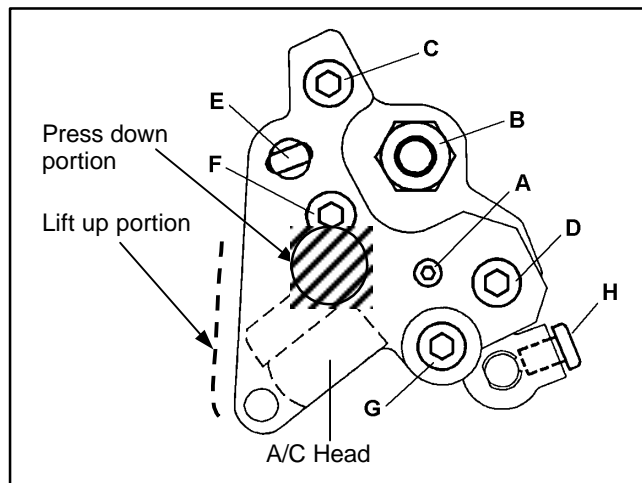


Figure 3-13-3

6. After finish X value adjustment, hit the portion (L) lightly and confirm the specification of X-value.
7. Each adjustment of A/C Head should be finished at the condition of turn the each adjustment screw tighten direction. And hit the portion (L) lightly for remove the distortion of A/C Head plate.

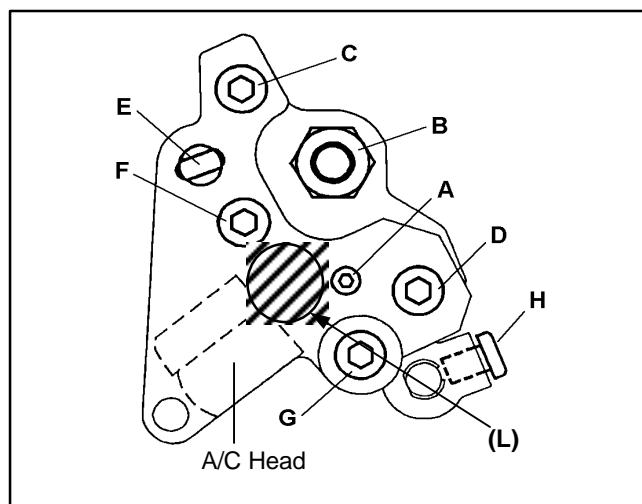


Figure 3-13-4



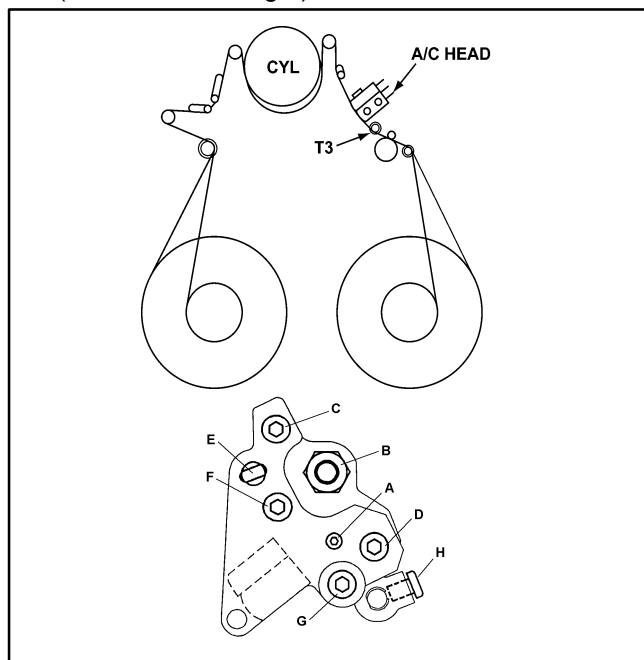
### 3-14. A/C Head Tilt Adjustment

<b>SPEC</b>	curl does not appear on tape edge Lower limit at T3 post
<b>ADJ.</b>	SCREW A, G (A/C Head)
<b>MODE</b>	PLAY
<b>TAPE</b>	Blank tape (The long time correspond model use long time recorded tape)
<b>TOOL</b>	VFK1148, VFK1178 (Hex Driver)

1. Play back the tape and adjust screw (A) for adjustment of tilt of A/C Head so that the tape path has lower limit without curl at T3 post.
2. To adjustment, loosen the screw (G) and make curl on tape at lower flange of T3 post by screw (A). And tighten screw (A) accordingly for find the point of curl disappeared. After finish adjustment for screw (A), tighten the screw (G) is tightened with 10cN-m (1.0Kg/cm) of torque.

#### NOTE :

1. In case of turn clockwise screw (A).  
→ Tape goes up at T3 post.  
In case of turn counter-clockwise screw (A).  
→ Tape goes down at T3 post.
2. When screw adjustment finished, with each adjustment screw on A/C Head should be finished tighten direction. And confirm that the screw does not loosen.
3. Adjust and confirmation should be performed alternately with each A/C head adjustment (Azimuth and Height).



### 3-15. A/C Head Height Adjustment

<b>SPEC</b>	See below
<b>TEST POINT</b>	CUE AUDIO : CTL: Refer to item "2. Table of Test Point"
<b>ADJ.</b>	SCREW B, H (A/C Head)
<b>MODE</b>	See below
<b>TAPE</b>	<b>NTSC</b> : VFM3580KM or VFM3580KL (14 to 22min) <b>PAL</b> : VFM3680KM or VFM3680KL (14 to 22min)
<b>TOOL</b>	VFK1150 (Nut Driver) VFK1190 (Hex Wrench)

#### (Classified list for height)

TYPE	Model
<b>A</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850
<b>B</b>	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D610
<b>C</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-LT75, AJ-LT85
<b>D</b>	AJ-DE77, AJ-D780
<b>E</b>	AJ-D940, AJ-D950, AJ-D950A
<b>F</b>	AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA
<b>G</b>	AJ-D92, AJ-D94, AJ-D95DC

#### (Classified list of specification)

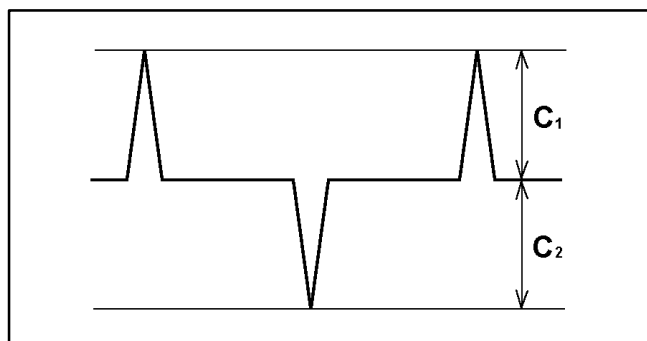
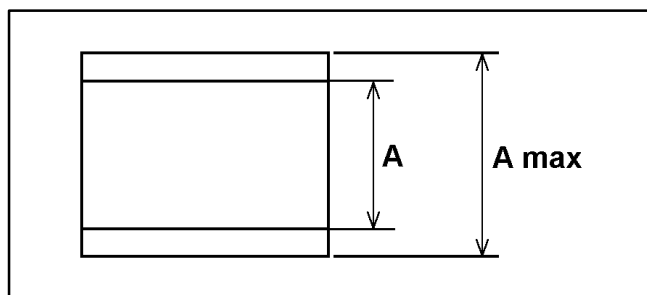
TYPE	Spec. for CUE	Spec. for CTL
<b>A, D, E</b>	A = Amax	C1, C2 ≥ 1.8 V
<b>B, F</b>		C1, C2 ≥ 220 mV
<b>C, G</b>		C1, C2 ≥ 160 mV

#### (VTR mode)

TYPE	VTR mode
<b>A, B, C</b>	PLAY
<b>D</b>	FWD X1.0 (SHTL)
<b>E, F, G</b>	25M mode PLAY



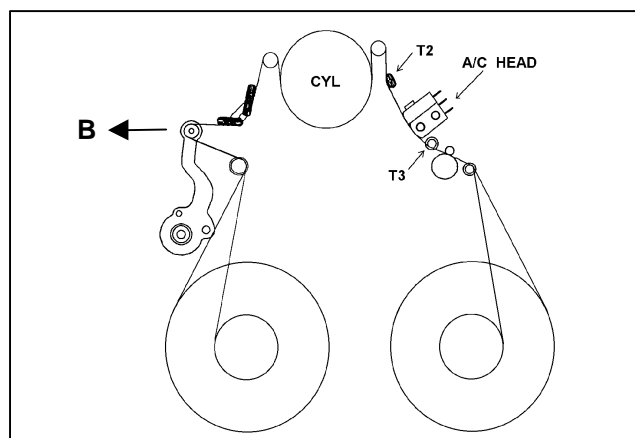
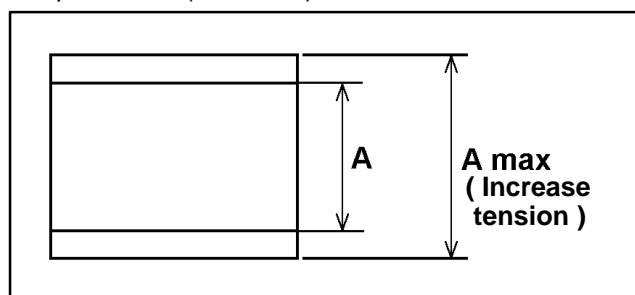
1. Press and Lift up to A/C Head lightly as indicated as figure position, then confirm that the CTL and CUE output level is within specification.
2. If it out of spec., loosen the screw H and adjust the screw B until Cue output is maximized.
3. When confirm the level in specification, screw (H) should be tighten completely. (refer to A/C Head Adjustment Method)
4. Adjust alternately with other A/C head adjustments (Azimuth, X-Value).



### 3-16. A/C Head Tilt Confirmation

<b>SPEC</b>	A/Amax $\geq 0.8$
<b>TEST POINT</b>	CUE AUDIO : Refer to item "2. Table of Test Point"
<b>ADJ.</b>	SCREW A, G (A/C Head)
<b>MODE</b>	PLAY
<b>TAPE</b>	<b>NTSC</b> : VFM3580KM or VFM3580KL (14 to 22min) <b>PAL</b> : VFM3680KM or VFM3680KL (14 to 22min)
<b>TOOL</b>	VFK1178, VFK1148 (Hex Driver)

1. Playback the Alignment tape.
2. Confirm that the screw G and H are not loosened.
3. Push the tension post follow the arrow (B) direction as shown in figure as range of T2 post does not move. And confirm that the CUE output level is within specification.
4. If out of specification, loosen the screw G and adjust the screw A, then tighten the screw G with 10cN-m (1.0kg) torque.
5. The final touch of the adjustment must be turned clockwise. After this adjustment, confirm that the screw A is not loosened.
6. If adjust the screw A, Confirm that the tape pass condition follow Post Limit Confirmation procedure (item 3-12).

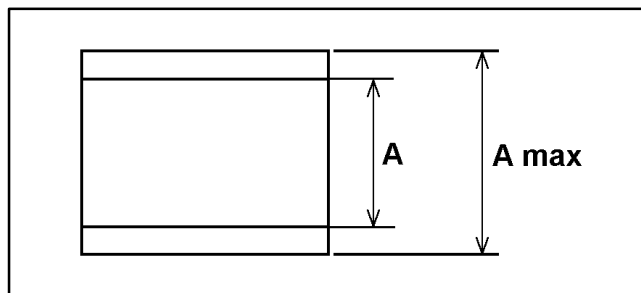




### 3-17. A/C Head Height Confirmation

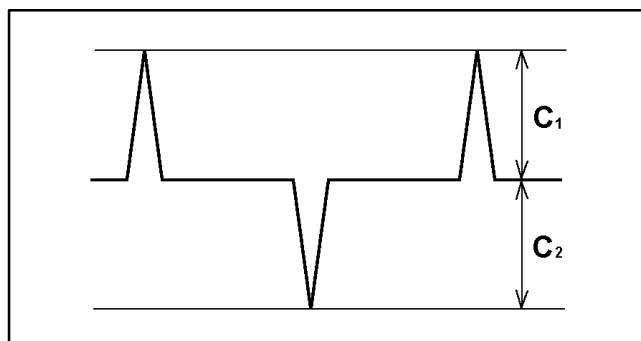
<b>SPEC</b>	See below
<b>TEST POINT</b>	CUE AUDIO : CTL: Refer to item "2. Table of Test Point"
<b>ADJ.</b>	SCREW B, H (A/C Head)
<b>MODE</b>	See below
<b>TAPE</b>	<b>NTSC</b> : VFM3580KM or VFM3580KL (14 to 22min) <b>PAL</b> : VFM3680KM or VFM3680KL (14 to 22min)
<b>TOOL</b>	VFK1150 (Nut Driver) VFK1190 (Hex Wrench)

1. Press and Lift up to A/C Head lightly as indicated as figure position, then confirm that the CTL and CUE output level is within specification.
2. If it out of spec., loosen the screw H and adjust the screw B until Cue output is maximized. (refer to item "3-15 A/C Head Height Adjustment".)



#### (Classified list for height)

TYPE	Model
<b>A</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850
<b>B</b>	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D610
<b>C</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-LT75, AJ-LT85
<b>D</b>	AJ-DE77, AJ-D780
<b>E</b>	AJ-D940, AJ-D950, AJ-D950A
<b>F</b>	AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA
<b>G</b>	AJ-D92, AJ-D94, AJ-D95DC



#### (Classified list of specification)

TYPE	Spec. for CUE	Spec. for CTL
<b>A, D, F</b>	$A = 0.95 \times A_{max}$	$C1, C2 \leq 1.8 \text{ V}$
<b>B, F</b>		$C1, C2 \geq 220 \text{ mV}$
<b>C, G</b>		$C1, C2 \geq 160 \text{ mV}$

#### (VTR mode)

TYPE	VTR mode
<b>A, B, C</b>	PLAY
<b>D</b>	FWD X1.0 (SHTL)
<b>E, F, G</b>	25M mode PLAY



### 3-18. A/C Head Azimuth and X-value Adjustment (25M)

SPEC	As shown in below figure.  -250μs ≤ t1, t2 ≤ +250μs	TEST POINT	RP ENV	Refer to item “2. Table of Test Point.
			PB HSW	
			CUE	
			CTL	
ADJ.	A/C Head each screw	M.EQ	Oscilloscope	
MODE	See below	TOOL	VFK0357 (Eccentric Driver)	
TAPE	NTSC : VFM3582KM or VFM3582KL PAL : VFM3682KM or VFM3682KL		VFK1148 (Hex Driver) VFK1209 (Torque Driver) VFK1375 (Hex Bit)	

#### (Classified list)

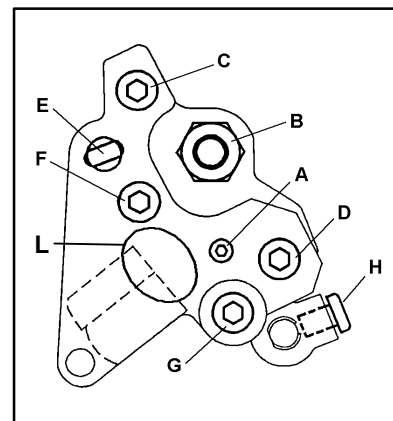
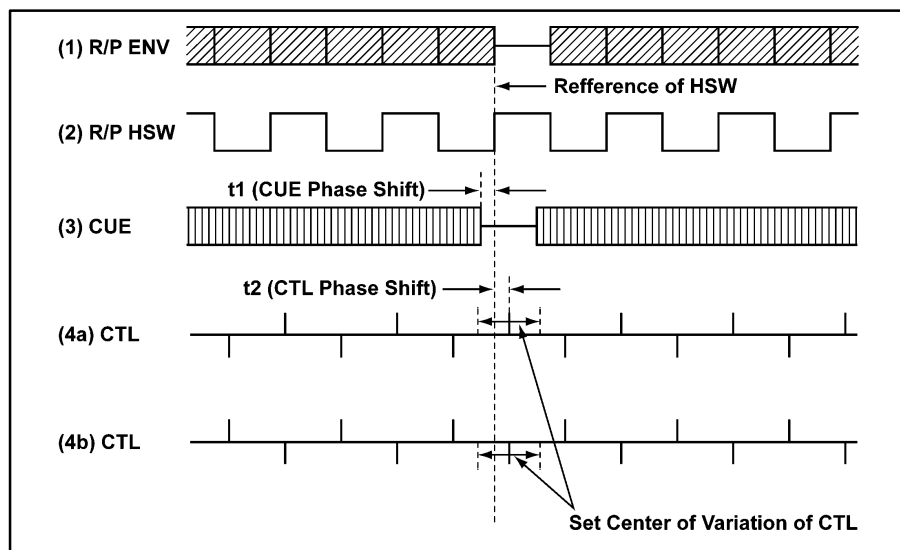
TYPE	Model
<b>A</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850
<b>B</b>	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D700, AJ-D800, AJ-D810, AJ-D610
<b>C</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-LT75, AJ-LT85

#### (CTL Reference)

TYPE	Reference (Trigger)
<b>A</b>	Falling edge: refer to below figure (4b).
<b>B, C</b>	Rising edge: refer to below figure (4a).

#### (VTR mode)

TYPE	Mode
<b>A, C</b>	ATF PLAY mode by RP Head. (refer to [A/C Head Adjustment mode] on item "2. Table of Test Point".)
<b>D</b>	PLAY



1. Set the VTR mode on Service Menu with type A and C models.
2. Playback an X-value Alignment tape.
3. Adjust screw (F) so that the CTL and Lack part of CUE (t2) is match in the phase. (refer to A/C Head Adjustment Procedure)
4. Confirm the lack track of envelope, and select the HSW correspond with it (The lack track is correspond HSW high with L ch).
5. Adjust A/C Head Horizontal position so that the reference of HSW and CTL trigger are match in the phase (t1). To adjust X-value, loosen the screw C and D, adjust the hole E by VFK0357. After adjustment tighten the screw C and D with 24.5cN-m (2.5Kg) torque. At this time adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept.
6. Hit the top plate ( portion L as shown in figure ) of A/C Head lightly by a pointed end of Eccentric driver , then confirm the phase is not shifted finally.



### 3-18. A/C Head Azimuth and X-value Adjustment (50M)

SPEC	As shown in below figure.  25M mode : -250μs ≤ t1, t2 ≤ +250μs 50M mode : -125μs ≤ t1, t2 ≤ +125μs	TEST POINT	R/P ENV L	Refer to item “2. Table of Test Point.
			R/P HSW L	
			CUE OUT	
			CTL OUT	
		M. EQ	Oscilloscope	
ADJ.	A/C Head each screw	TOOL	VFK0357 (Eccentric Driver)	
MODE	See below		VFK1148 (Hex Driver)	
TAPE	NTSC : VFM3582KM or VFM3582KL PAL : VFM3682KM or VFM3682KL		VFK1209 (Torque Driver)	
			VFK1375 (Hex Bit)	

#### (Classified list)

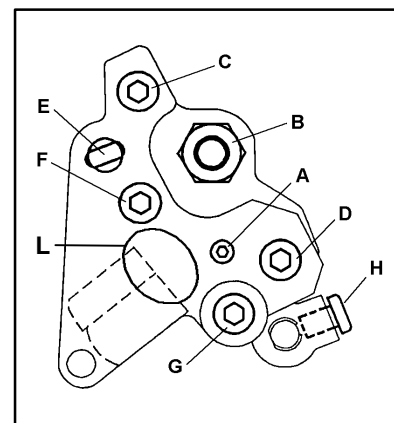
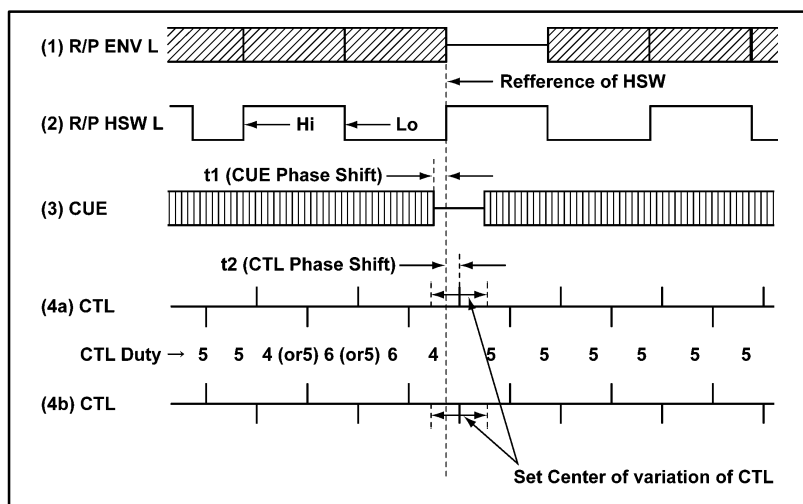
TYPE	MODEL
<b>A</b>	AJ-D950, AJ-D950A
<b>B</b>	AJ-D90, AJ-D900W, AJ-D910WA, AJ-PD900W
<b>C</b>	AJ-D92, AJ-D94, AJ-D95DC

#### (CTL Reference)

TYPE	Reference (Trigger)
<b>B, C</b>	Rising edge : refer to below figure 1 (4a).
<b>A</b>	Falling edge : refer to below figure 1 (4b).

#### (VTR mode)

TYPE	Mode
<b>A, C</b>	25M/50M : ATF PLAY mode by RP Head. (refer to Head Adjustment mode] on "Table of Test Point".)
<b>B</b>	25M : 25M PLAY, 50M : 50M PLAY

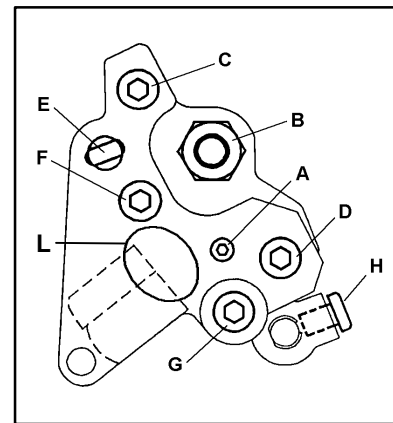
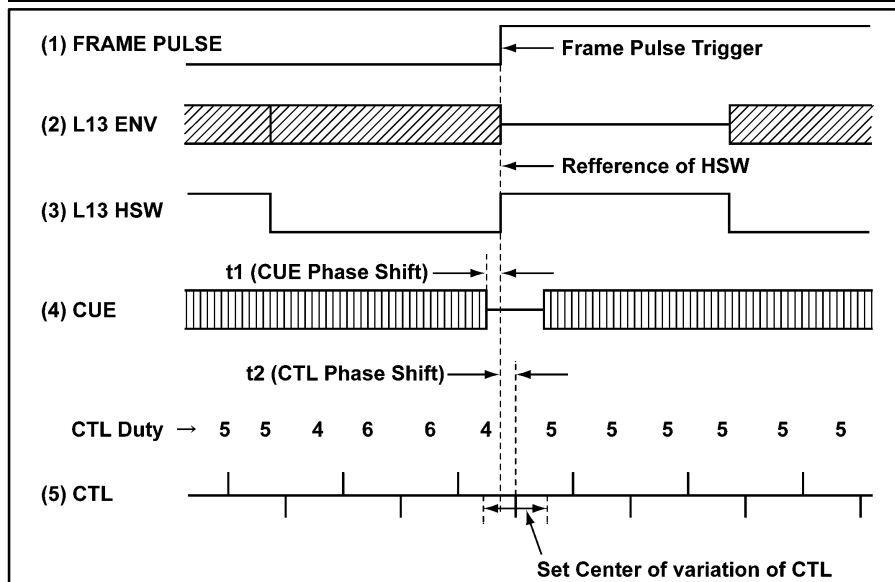


1. Set the VTR mode on Service Menu with type A and C models.
2. Set the VTR in 25M mode and playback an X-value Alignment tape.
3. Adjust screw (F) so that the CTL and Lack part of CUE (t2) is match in the phase. (refer to A/C Head Adjustment Procedure).
4. Confirm the lack track of envelope, and remember the HSW is high or low at the portion (H SW High or Low is changed at each tape loading).
5. Adjust A/C Head Horizontal position so that the memorized HSW and CTL trigger at the frame start is match in the phase (t1). The frame start CTL is located at the edge between 6 : 4 and 5 : 5 portion. To adjust A/C Head Horizontal position, loosen the screw C and D, adjust the hole E by VFK0357. After adjustment tighten the screw C and D with 24.5cN-m (2.5Kg) torque. At this time adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept.
6. Hit the top plate (portion L as shown in figure) of A/C Head lightly by a pointed end of Eccentric driver, then confirm the phase is not shifted finally.
7. Set the VTR in 50M mode and confirm the timing is in specification. If it out spec., adjust this item again.



### 3-18. A/C Head Azimuth and Horizontal Position Adjustment (AJ-D780 & AJ-DE77)

<b>SPEC</b>	As shown in below figure  $-250\mu s \leq t_1, t_2 \leq +250\mu s$	<b>TEST POINT</b>	FLAME PULSE L13 ENV L13 HSW CUE OUT CTL OUT	Refer to item "2. Table Of Test Point"
<b>ADJ.</b>	A/C Head each screw	<b>M. EQ</b>	Oscilloscope	
<b>MODE</b>	PLAY (Frame synchronized mode)	<b>TOOL</b>	VFK0357 (Eccentric Driver)	
<b>TAPE</b>	<b>NTSC</b> : VFM3582KM or VFM3582KL <b>PAL</b> : VFM3682KM or VFM3682KL		VFK1148 (Hex Driver)	
<b>CTL Reference</b>	Falling edge		VFK1209 (Torque Driver) VFK1375 (Hex Bit)	



1. Confirm that the phase of CUE and CTL are within specification against Frame pulse trigger. If it out of spec., perform adjustment follow the below procedure.
2. Adjust screw (F) so that the CTL and Lack part of CUE (t2) is match in the phase. (refer to A/C Head Adjustment Procedure).
3. Confirm the lack track of envelope, and select the HSW correspond with it (The lack track is correspond HSW high with L ch).
4. Adjust A/C Head Horizontal position so that the memorized HSW and CTL trigger at the frame start is match in the phase (t1). The frame start CTL is located at the edge between 6 : 4 and 5 : 5 portion. To adjust A/C Head Horizontal position, loosen the screw C and D, adjust the hole E by VFK0357. After adjustment tighten the screw C and D with 24.5cN-m (2.5Kg) torque. At this time adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept.
5. Hit the top plate (portion L as shown in figure) of A/C Head lightly by a pointed end of Eccentric driver, then confirm the phase is not shifted finally.

**NOTE :** If the waveform could not be stabilized by trigger (HSW or CTL) on the scope, please use the TP105 (CF PULSE) on the SERVO (in case of AJ-D780) or V OUT (in case of AJ-DE77) P.C.Board.

6. After finish this X-value adjustment, EVR adjustment is required follow the below procedure.

#### <In case of AJ-D780>

1. Select item "A06 : X VALUE" on Service menu.
2. Playback the X-value alignment tape.
3. Press cursor button "→" or "←" and keep it until numerical value is renewed.
4. Confirm that the value is  $0 \pm 55$ .
5. If out of specification, perform the X-value adjustment again.

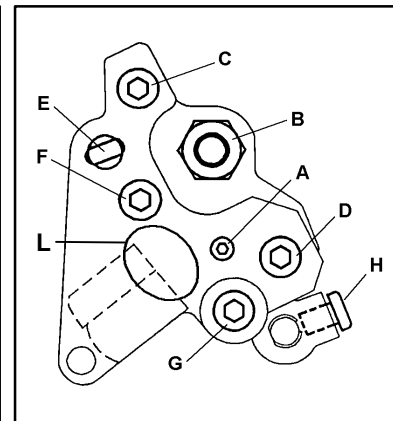
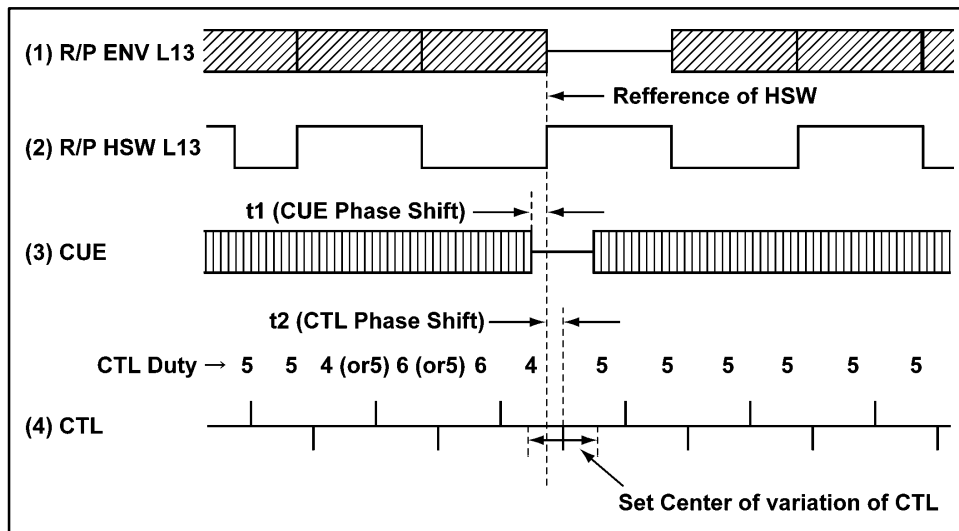
#### <In case of AJ-DE77>

1. Select item "A09 : X VALUE" on Service menu.
2. Playback the X-value alignment tape.
3. Press "SERACH" button and keep it until numerical value is renewed.
4. Confirm that the value is  $0 \pm 55$ .
5. If out of specification, perform the X-value adjustment again.



### 3-18. A/C Head Azimuth and Horizontal Position Adjustment (AJ-D940)

SPEC	As shown in below figure 50M : $-125\mu s \leq t_1, t_2 \leq +125\mu s$	TEST POINT	PB ENV L13	Refer to item “2. Table Point
			PB HSW L13	
			CUE OUT	
			CTL OUT	
MODE	ATF mode PLAY on PB L13ch Head Format : 50M Select item "A05:PBL13 LINEAR" on Service	TOOL	VFK0357 (Eccentric Driver) VFK1148 (Hex Driver) VFK1209 (Torque Driver) VFK1375 (Hex Bit)	
TAPE	NTSC : VFM3582KM or VFM3582KL PAL : VFM3682KM or VFM3682KL	M. EQ	Oscilloscope	



1. Open the SERVO ADJUST MENU on Service Menu and select the item "A05 : PBL13 LINEAR".
2. Playback a X-value alignment tape on 50M mode.
3. Adjust screw (F) so that the CTL and Lack part of CUE (t2) is match in the phase. (refer to A/C Head Adjustment Procedure).
4. Confirm the lack track of envelope, and remember the HSW is high or low at the portion (H SW High or Low is changed at each tape loading).
5. Adjust A/C Head Horizontal position so that the memorized HSW and CTL trigger at the frame start is match in the phase (t1). The frame start CTL is located at the edge between 6 : 4 and 5 : 5 portion. To adjust A/C Head Horizontal position, loosen the screw C and D, adjust the hole E by VFK0357. After adjustment tighten the screw C and D with 24.5cN-m (2.5Kg) torque. At this time adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept.
6. Hit the top plate (portion L as shown in figure) of A/C Head lightly by a pointed end of Eccentric driver, then confirm the phase is not shifted finally.



### 3-19. REV Tape Pass Confirmation and Adjustment (T4 Post Height Adjustment)

<b>SPEC</b>	C1, C2 $\geq$ Cp1, Cp2 $\times$ 0.75 <b>NOTE:</b> C1, C2 : CTL output REV (-1) mode Cp1, Cp2 : CTL output PLAY (+1) mode Lower limit at T3 post on REV mode Curl does not appear on tape at T3 and T4 post
<b>TEST POINT</b>	CTL : refer to item "2. Table of Test Point
<b>ADJ.</b>	T4 post height
<b>MODE</b>	See below
<b>TAPE</b>	<b>NTSC:</b> VFM3580KM or VFM3580KL <b>PAL:</b> VFM3680KM or VFM3680KL
<b>TOOL</b>	VFK1150 (Nut Driver)

#### (Classified list of REV Tape Pass Confirmation)

TYPE	Model
<b>A</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850
<b>B</b>	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D610
<b>C</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-LT75, AJ-LT85
<b>D</b>	AJ-DE77, AJ-D780
<b>E</b>	AJ-D940, AJ-D950, AJ-D950A
<b>F</b>	AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA
<b>G</b>	AJ-D92, AJ-D94, AJ-D95DC

#### (VTR mode)

TYPE	Mode
<b>[ PLAY (+1) ]</b>	
<b>A, B, C</b>	PLAY
<b>D</b>	FWD +1.0 (SHTL) or PLAY
<b>E, F, G</b>	PLAY on 25M mode
<b>[ REV (-1) ]</b>	
<b>A, B, C, D</b>	REV -1.0 (SHTL)
<b>E, F, G</b>	FWD X1.0 (SHTL) on 25M mode



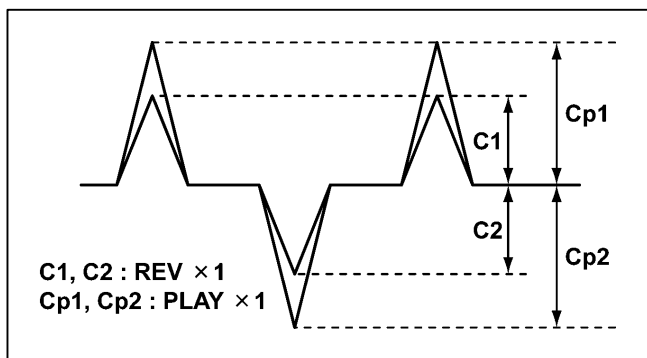
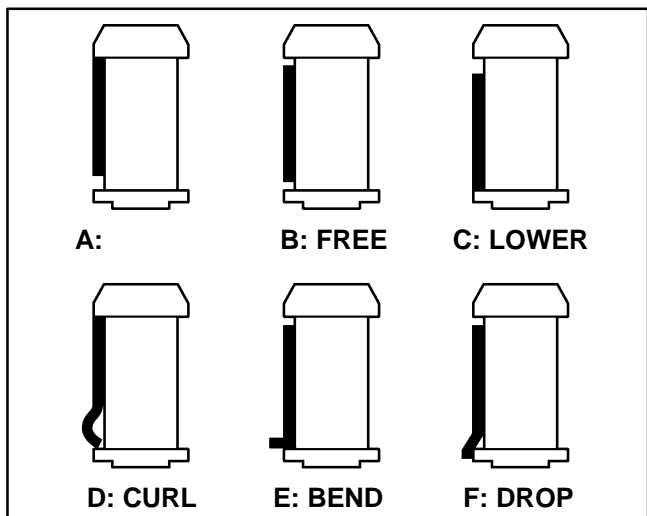
1. Place unit into REV mode, and confirm the post limit and CTL signal are in the specification. IF not, adjust T4 post follow the below procedure.
2. Turn the Nut of T4 post clockwise or counterclockwise follow the tape limit condition at T3 post. The maximum rotation angle is 45 degree.
3. Place unit into REV X1 mode and confirm the CTL output level is become more than 75% on play mode. Confirm the tape pass limit become lower limit at T3 post and the tape does not have curl at T3 and T4 post.
4. However out of specification, adjust T4 post height follow the item "Post Height Pre-adjustment procedure".

#### [T4 Nut Adjustment Direction]

Direction	CTL Level	Condition of lower limit on T3 Post
Tighten	Increase	Tape touch to strong
Loosen	Decrease	Tape touch to weak

#### [Post limit]

Post	A	B	C	D	E	F
T3	NG	NG	OK	NG	NG	NG
T4	OK	OK	OK	NG	NG	NG





### 3-20. REV (-1) Mode Setting Procedure

#### <Setting Procedure>

TYPE	How to Setting
A	Select the -1.0 speed by SEARCH Dial.
B	(1) Set the VTR to 25M Playback mode (2) Select the -1.0 speed by SEARCH Dial.
C	(1) Open the SERVICE MENU. (2) Press "PLAY" and "REW" button simultaneously.
D	(1) Connect the front panel of AJ-D750 or Editing Controller. (2) Select the -1.0 speed by SEARCH Dial.
E	(1) Set the VTR to STILL mode by press "PLAY" button twice. (2) Press "PLAY" and "RESET" button simultaneously.
F	(1) Open the SERVICE MENU. (3) Press "PLAY", "STOP" and "END" button simultaneously.
G	(1) Open the SERVICE MENU. (2) Press "PLAY" and "REW" button simultaneously.

#### (Classified list of REV mode setting)

TYPE	Model
A	AJ-D440, AJ-D450, AJ-D750, AJ-D850, AJ-LT75, AJ-LT85
B	AJ-D940, AJ-D950, AJ-D950A
C	AJ-D640, AJ-D650, AJ-D780
D	AJ-DE77
E	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA, AJ-D610
F	AJ-D220, AJ-D230, AJ-D230H, AJ-D250
G	AJ-D92, AJ-D94, AJ-D95DC

**NOTE :** Above setting only apply to item "REV Tape Pass Confirmation and Adjustment (T4 post height adjustment)". All models should be set to 25M mode with REV (-1) speed playback.

### Confirmation

TEST POINT	CTL : (refer to Table of Test Point)
ADJ.	T4 post height
MODE	PLAY, REV×1
TAPE	Blank Tape
M.EQ	Oscilloscope

### 3-21. CTL Self Recording Level



**(Classified list of CTL Recording Level)**

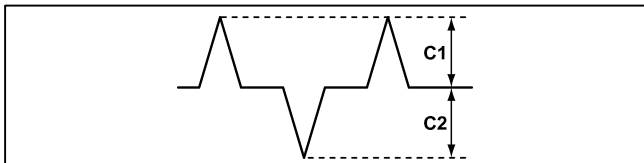
TYPE	Model
<b>A</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850
<b>B</b>	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D610
<b>C</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-LT75, AJ-LT85
<b>D</b>	AJ-DE77, AJ-D780
<b>E</b>	AJ-D940, AJ-D950, AJ-D950A
<b>F</b>	AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA
<b>G</b>	AJ-D92, AJ-D94, AJ-D95DC

**(Specification for confirmation)**

TYPE	CTL Output Level : C1, C2
<b>PLAY (Please refer to Table 1)</b>	
<b>A, D, E</b>	$C1, C2 \geq 1.8 \text{ V}$
<b>B, F</b>	$C1, C2 \geq 220 \text{ mV}$
<b>C, G</b>	$C1, C2 \geq 160 \text{ mV}$
<b>REV (1) (-1 speed on SHTL mode)</b>	
<b>A, D, E</b>	$C1, C2 \geq 1.4 \text{ V}$
<b>B, F</b>	$C1, C2 \geq 170 \text{ mV}$
<b>C, G</b>	$C1, C2 \geq 120 \text{ mV}$
<b>REV (2) (-0.2 speed on SHTL mode)</b>	
<b>A, D, E</b>	$C1, C2 \geq 1.2 \text{ V}$
<b>B, F</b>	-----
<b>C, G</b>	-----

**< PLAY mode on VTR >**

TYPE	Mode
<b>A, B, C</b>	PLAY
<b>D</b>	FWD +1.0 (SHTL) or PLAY
<b>E, F, G</b>	PLAY on 25M mode



1. Please confirm that the each screws are fixed on A/C Head.
2. Place Unit into REC mode and playback the recorded portion.
3. Confirm that the CTL level is within specification on PLAY and REV mode.
4. If CTL level is out of specification on PLAY mode, confirm the height of A/C Head (refer to item "A/C Head Height Confirmation")
5. If CTL level is out of specification on REV mode, confirm the height of T4 Post (refer to item "REV Tape Pass Confirmation and Adjustment").



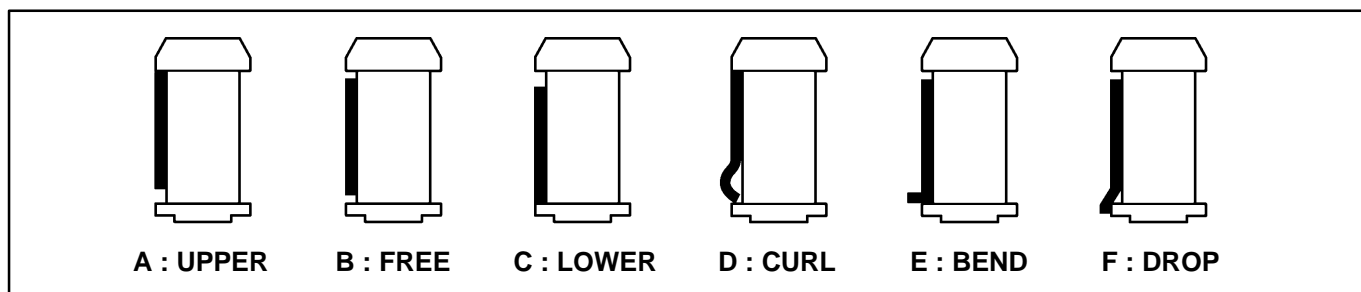
## 3-22. Play Tape Pass Limit Confirmation

<b>SPEC</b>	Each post limit shown in below figure.
<b>MODE</b>	PLAY
<b>TAPE</b>	Blank Tape

Post Name	Tape limit (refer to figure)						Adjustment Point	Adjustment Item
	A	B	C	D	E	F		
S5 post	NG	OK	OK	NG	NG	NG	S4, S5 post	Post Height Pre-Adjustment
S4 (Tension) post	NG	NG	OK	NG	NG	NG		
S1 post	OK	NG	NG	NG	NG	NG	S1, T1 post	ENV Waveform Adjustment
T1 post	OK	NG	NG	NG	NG	NG		
T3 post	NG	NG	OK	NG	NG	NG	A/C Head tilt	A/C Head Tilt Adjustment
T4 post	OK	OK	OK	NG	NG	NG	T4 post	Post Height Pre-Adjustment

Table 3-22

1. Place unit into PLAY mode and confirm the each post limits is within specification.
2. If out of specification, adjust the post height follow the each adjustment procedure (Refer to above table).



## 3-23. Confirmation of Envelope on REV, REW and FF mode

<b>SPEC</b>	See Figure 3-23	<b>M.EQ</b>	Oscilloscope
<b>TEST POINT</b>	See below	<b>TAPE</b>	<b>NTSC</b> : VFM3580KM or VFM3580KL
<b>MODE</b>	REV, REW, FF		<b>PAL</b> : VFM3680KM or VFM3680KL

### (Classified list of Test Point)

TYPE	Signal	Test Point	Model
<b>A</b>	(1) R/P ENV (2) R/P HSW	(refer to Table of Test Point)	AJ-D200, AJ-D210, AJ-D215, AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-D400, AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D700, AJ-D700A, AJ-D750, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D850, AJ-LT75, AJ-LT85, AJ-D610
<b>B</b>	(1) R/P ENV L (2) R/P HSW L		AJ-D90, AJ-D92, AJ-D95DC, AJ-D900W, AJ-D900WA, AJ-D94, AJ-D910WA, AJ-D950, AJ-D950A, AJ-PD900W, AJ-PD900WA
<b>C</b>	(1) ENV L13 (2) HSW L13		AJ-DE77, AJ-D780
<b>D</b>	(1) PB ENV L13 (2) PB HSW L13		AJ-D940

Table 3-23



1. Confirm that the Envelope waveform becomes in the specification on REV, REW and FF mode as refer to figure and below.
  - Waveform must be Diamond Style.
  - All the peak level must be more than 90% of maximum level.  
 $V/V_{max} \geq 0.9$
2. If out of spec, adjust S4 post height. (refer to item "Post Height Pre-Adjustment")

**NOTE 1 :**

The model of except AJ-D950, AJ-D950A, AJ-D92, AJ-D95DC and AJ-D94 in TYPE B model on Table 3-23, which models should be connect to BER COUNTER (refer to item "Envelope Waveform Adjustment").

**NOTE 2 :**

In case of AJ-D940, setting on Service Menu required.  
(refer to item 3-11.)

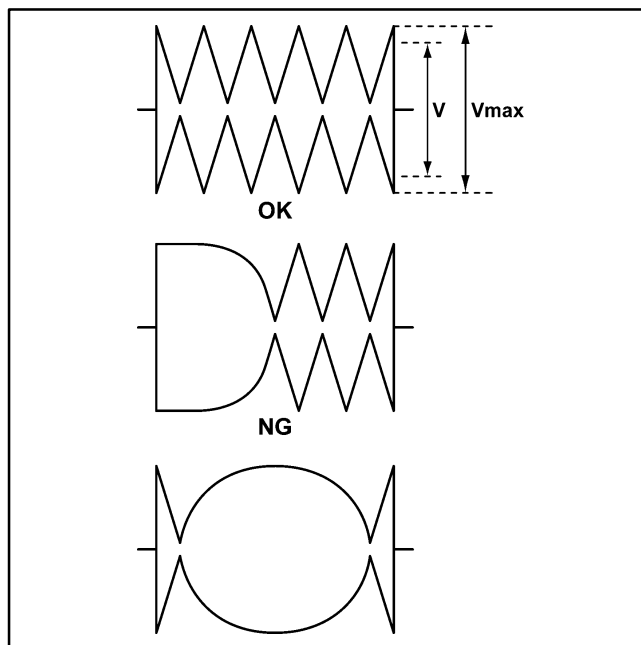


Figure 3-23

### 3-24. Confirmation of Play Start Envelope

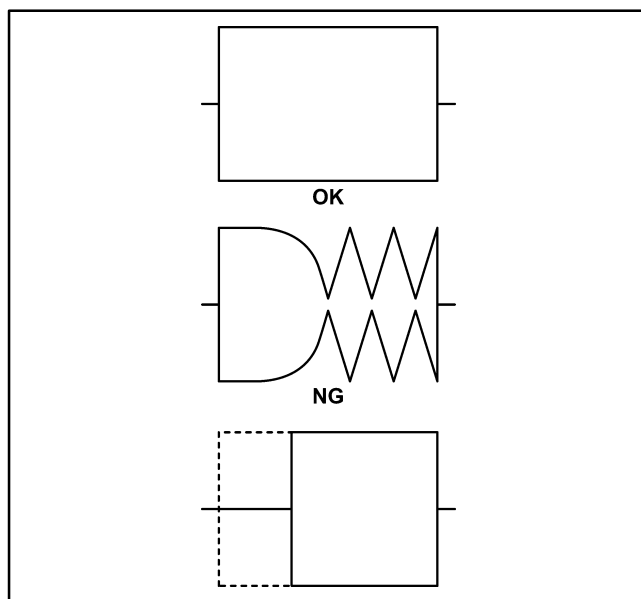
<b>SPEC</b>	Envelope Waveform signal should be rising up immediately on PLAY mode.
<b>TEST POINT</b>	Refer to Table 3-23 on previous item "3-23. Confirmation of Envelope on REV/REW and FF mode".
<b>MODE</b>	REW/REV → PLAY, Loading completion → PLAY, FF → PLAY
<b>TAPE</b>	① L Cassette (123min, Recorded tape) Tape beginning portion [ for models AJ-D200, AJ-D210, AJ-D215, AJ-D940 ] ② M Cassette (63min, Recorded tape) Tape beginning portion [ for except above models ]
<b>M.EQ</b>	Oscilloscope

This adjustment must be done after Envelope Waveform Adjustment.

1. Confirm that the envelope appears immediately, when the mode is changed from REW to PLAY, REV to PLAY, FF to PLAY, and Lording to PLAY mode.
2. If out of spec, adjust S4 post height. (refer to item "Post Height Pre-Adjustment")

**NOTE :**

In case of AJ-D940, setting on Service Menu required.  
(refer to item 3-11.)





### 3-25. REV mode Tape Pass Limit Confirmation

<b>SPEC</b>	Each post limit shown in below figure
<b>MODE</b>	REV
<b>TAPE</b>	<b>NTSC</b> : VFM3580KM or VFM3580KL <b>PAL</b> : VFM3680KM or VFM3680KL

Post Name	Tape Limit (Refer to figure 3-25)					
	A	B	C	D	E	F
S5 Post	OK	OK	OK	NG	NG	NG
S4 Post (Tension Post)	NG	OK	OK	NG	NG	NG
S1 Post	OK	NG	NG	NG	NG	NG
T1 Post	OK	OK	OK	NG	NG	NG
T3 Post	NG	NG	OK	NG	NG	NG
T4 Post	OK	OK	OK	NG	NG	NG

1. Place unit into REV mode and confirm the each post limits is within specification.
2. If out of specification, adjust the post height follow the each adjustment procedure (Refer to Table 3-22 on item 3-22)

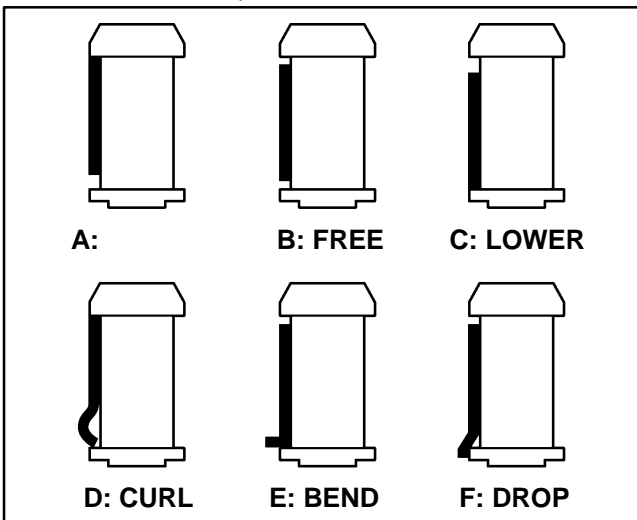


Figure 3-25

### 3-26. FF, REW mode Tape Pass Limit Confirmation

<b>SPEC</b>	Each post limit shown in below figure
<b>MODE</b>	FF, REW
<b>TAPE</b>	<b>NTSC</b> : VFM3580KM or VFM3580KL <b>PAL</b> : VFM3680KM or VFM3680KL

Post Name	Tape Limit (Refer to figure 3-25)					
	A	B	C	D	E	F
S5 Post	OK	OK	OK	NG	NG	NG
S4 Post (Tension Post)	NG	OK	OK	NG	NG	NG
S1 Post	OK	NG	NG	NG	NG	NG
T1 Post	OK	OK	OK	NG	NG	NG
T3 Post	OK	OK	OK	NG	NG	NG
T4 Post	OK	OK	OK	NG	NG	NG

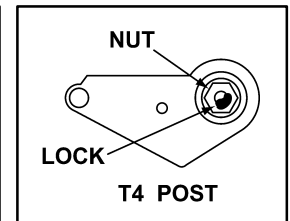
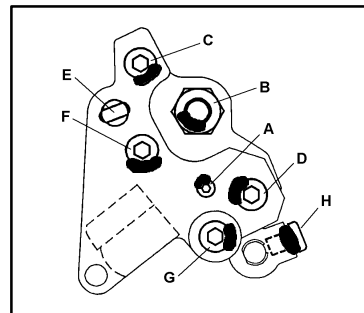
1. Place unit into FF and REW mode and confirm the each post limits is within specification.
2. If out of specification, adjust the post height follow the each adjustment procedure (Refer to Table 3-22 on item 3-22)

### 3-27. Screw Lock Tight of A/C Head and T3, T4 Post

#### <Screw Lock Tight of A/C Head>

	SCREW A	OTHER SCREWS
Lock Tight Grew Quantity	1/3 of the screw	1/3 of the screw

1. Fix the screw by the Lock Tight Grew after A/C Head Adjustment as shown in below figure.
2. Melt the grew before adjust each screws.



#### <Screw Lock Tight of T3 and T4 Post>

	SCREW A	OTHER SCREWS
Lock Tight Grew Quantity	1/4 of the screw	1/4 of the screw

1. Fix the Nut by the Lock Tight Grew after T4 Post Height Adjustment.
2. Melt the grew before perform adjustment.



### 3-28. Confirmation of Tape Damage for Long Tape Playback

#### <Classified list>

TYPE	Model	How to set step slow mode	Tape Type
A	AJ-D750JSB, AJ-D850	Search Dial	25M
B	AJ-LT85	Search Dial	25M
C	AJ-D230H, AJ-D250	Open the Service menu and press together END, STOP, and FF button.	25M
D	AJ-DE77	Search Dial on Front Panel (AJ-D750)	25M
E	AJ-D780	Search Dial on Remote Controller	
F	AJ-D950, AJ-D950A	Search Dial	50M
G	AJ-D92, AJ-D94, AJ-D95DC	<b>NOTE</b> : These model can not set step slow mode	50M
H	AJ-D440, AJ-D450	Search Dial on Remote Controller	25M
I	AJ-D940	Set +0.1 speed by Search Dial on 50M playback mode	50M
J	AJ-D215	<b>NOTE</b> : This model can not set step slow mode	25M

#### <Confirmation procedure>

Item	Confirmation mode		Specification
Tape Damage ①	PLAY		Tape damage does not occurred on tape at lower limit of T3 and T4 post.
	Step slow mode	TYPE	
	×0.5 speed (step slow)	A, E, H	
	×0.1 speed (step slow)	B, C, D, I	
	<Tape> Long time L cassette (AJ-5P93LP : recorded tape) Tape beginning portion		
Tape Damage ②	PLAY		Tape damage does not occurred on tape at lower limit of T3 and T4 post.
	Repeat operation CUE←→REV mode (maximum speed at Pinch ON condition)		
	<Tape> Long time L cassette (AJ-5P93LP : recorded tape) Tape end portion		



### 3-29. LISTA Adjustment Procedure

With procedure of LISTA adjustment, which is difference of each models. Please select the number of corresponded procedure follow the below Table 3-29-1. And when execute the LISTA Adjustment, please adjust each items follow the flow chart.

#### <Classified list of LISTA Adjustment Procedure>

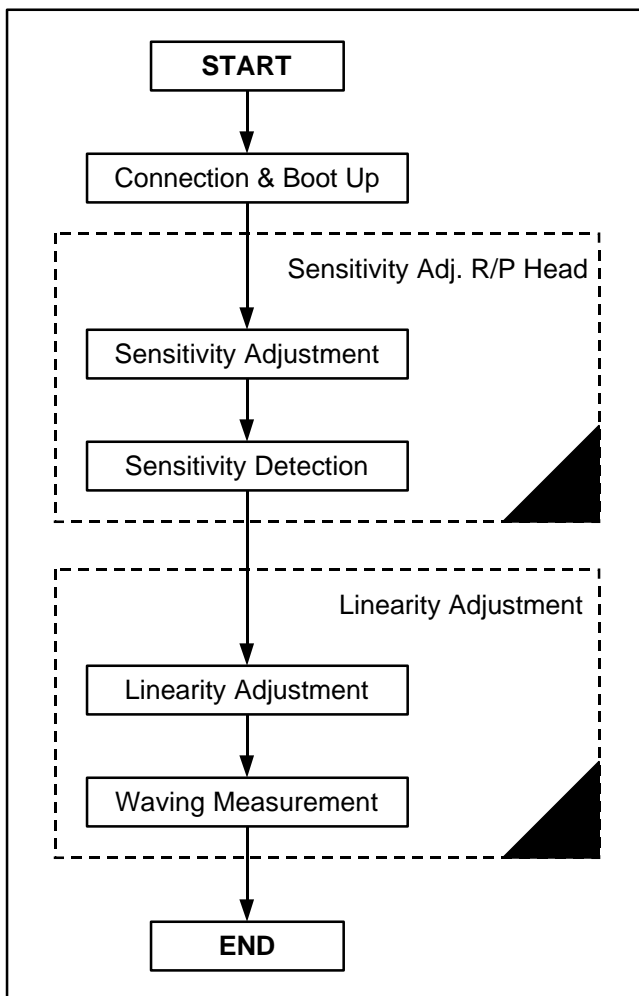
Procedure	Models
Procedure (1)	AJ-D200, AJ-D210, AJ-D215, AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D610
Procedure (2)	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850, AJ-LT75, AJ-LT85
Procedure (3)	AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA
Procedure (4)	AJ-D92, AJ-D94, AJ-D95DC, AJ-D950, AJ-D950A
Procedure (5)	AJ-DE77, AJ-D780
Procedure (6)	AJ-D940

Table 3-29-1

#### NOTE :

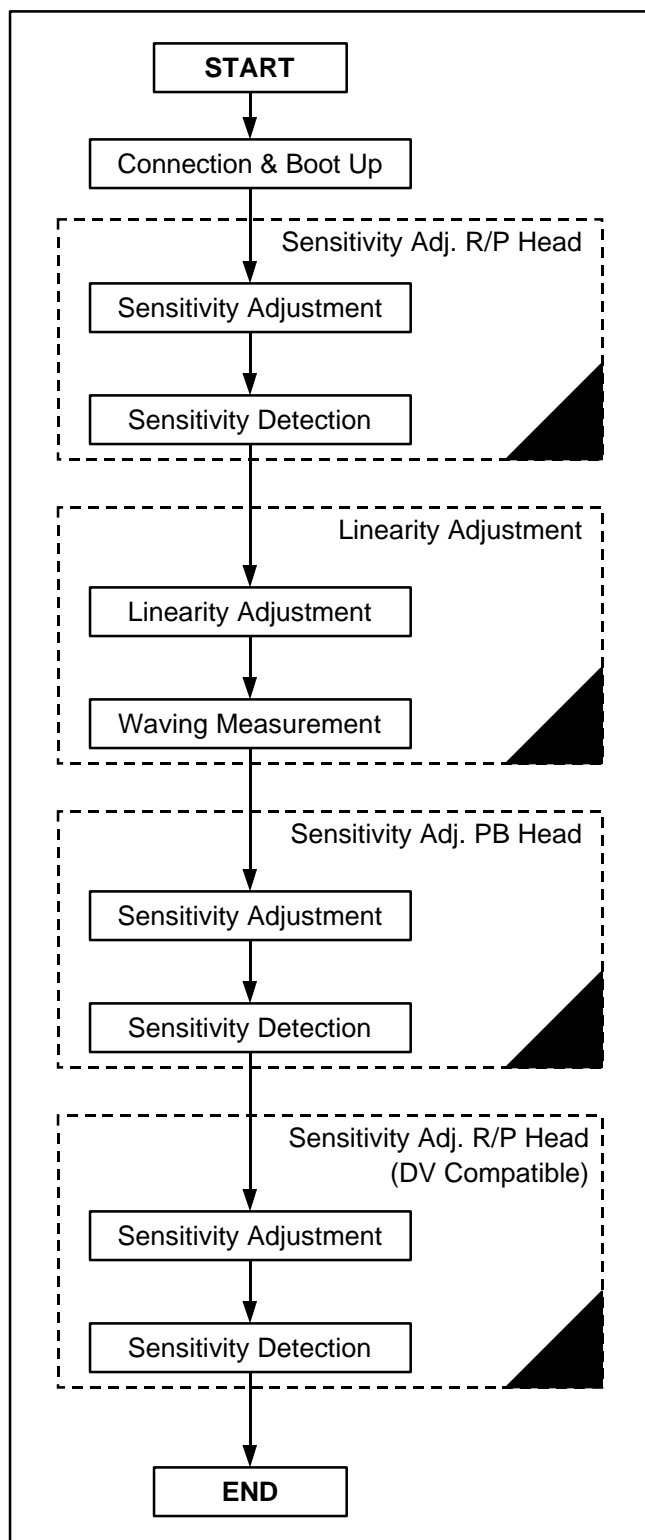
1. Refer to the item "3-32. LISTA Sensitivity Adjustment & Detection" about procedure of the sensitivity adjustment and sensitivity detection.
2. Refer to the item "3-33. LISTA Linearity Adjustment & Waving Measurement" about procedure of the linearity adjustment.

#### Procedure (1) (25M Camera Recorder, Desk-top)

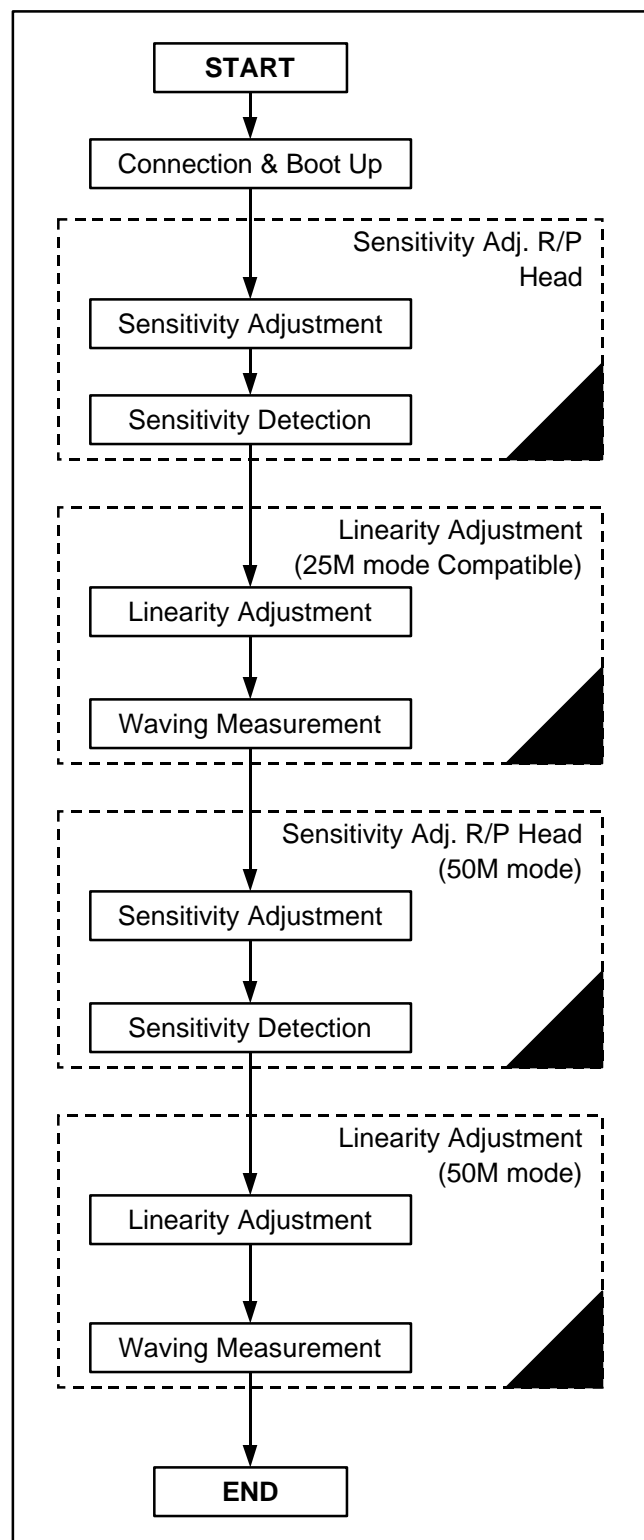




**Procedure (2)**  
(25M Studio VTR, Lap-top Editor)



**Procedure (3)**  
(50M Camera Recorder)

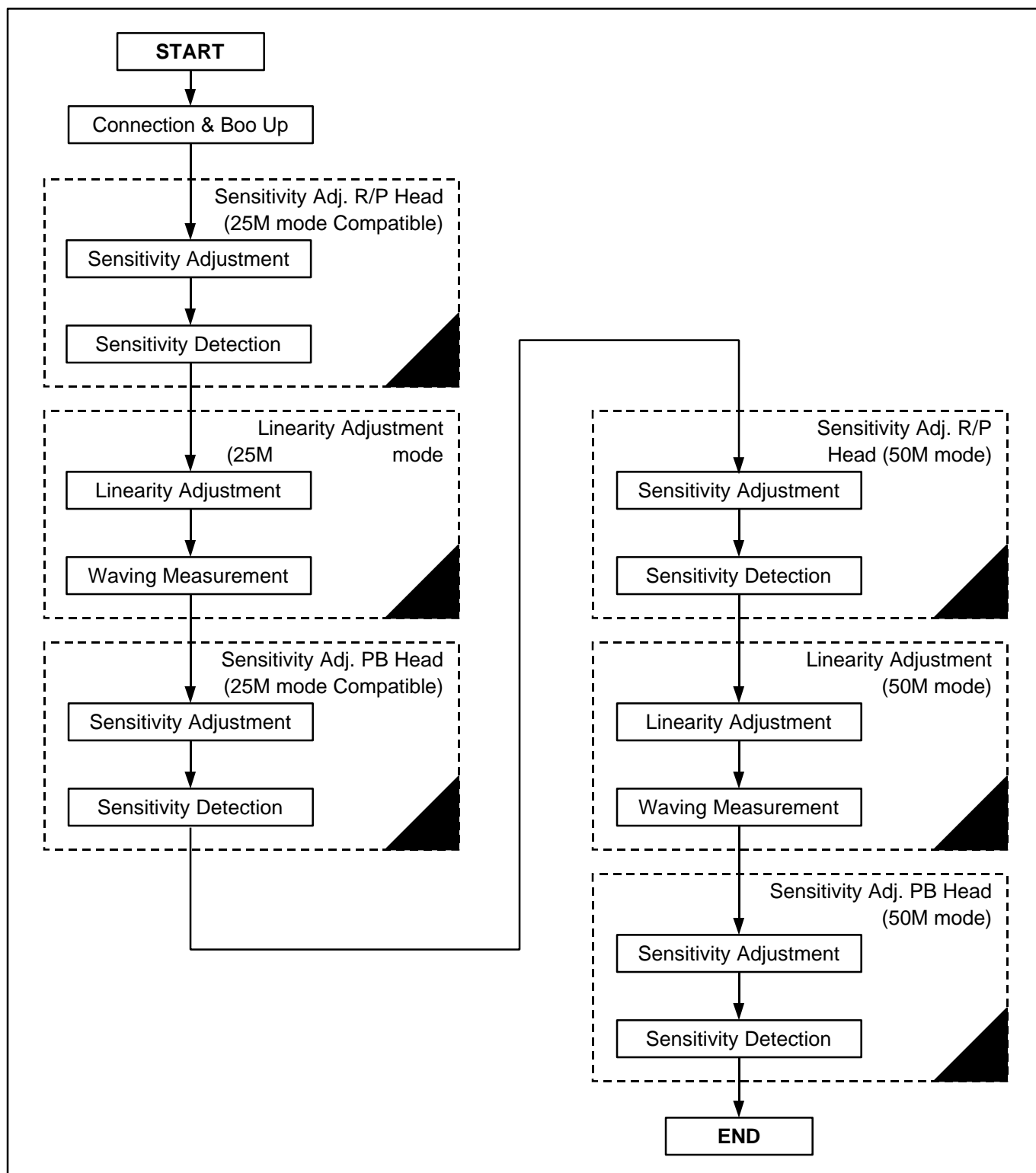


**<Information>**

Mode changes 25M ↔ 50M of LISTA software can be performed on the LISTA main menu by press “0” key on Keyboard of PC..



**Procedure (4)**  
**(50M Studio VTR, Recorder)**

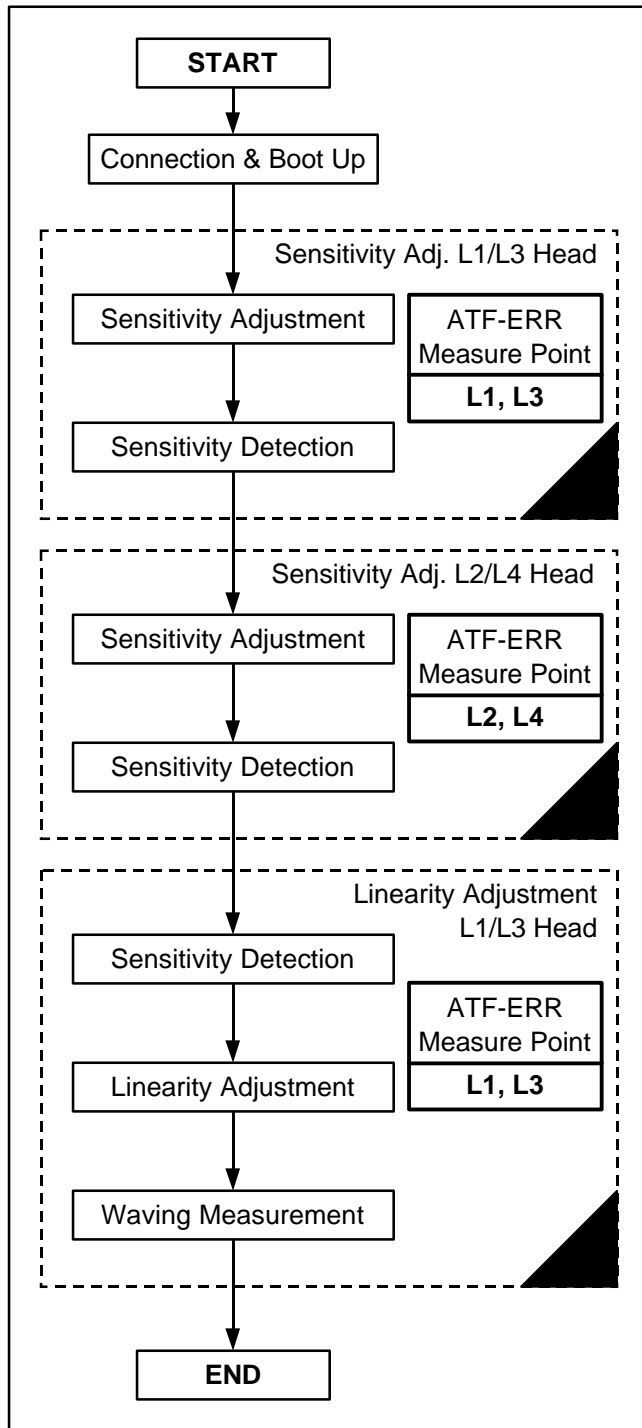


**<Information>**

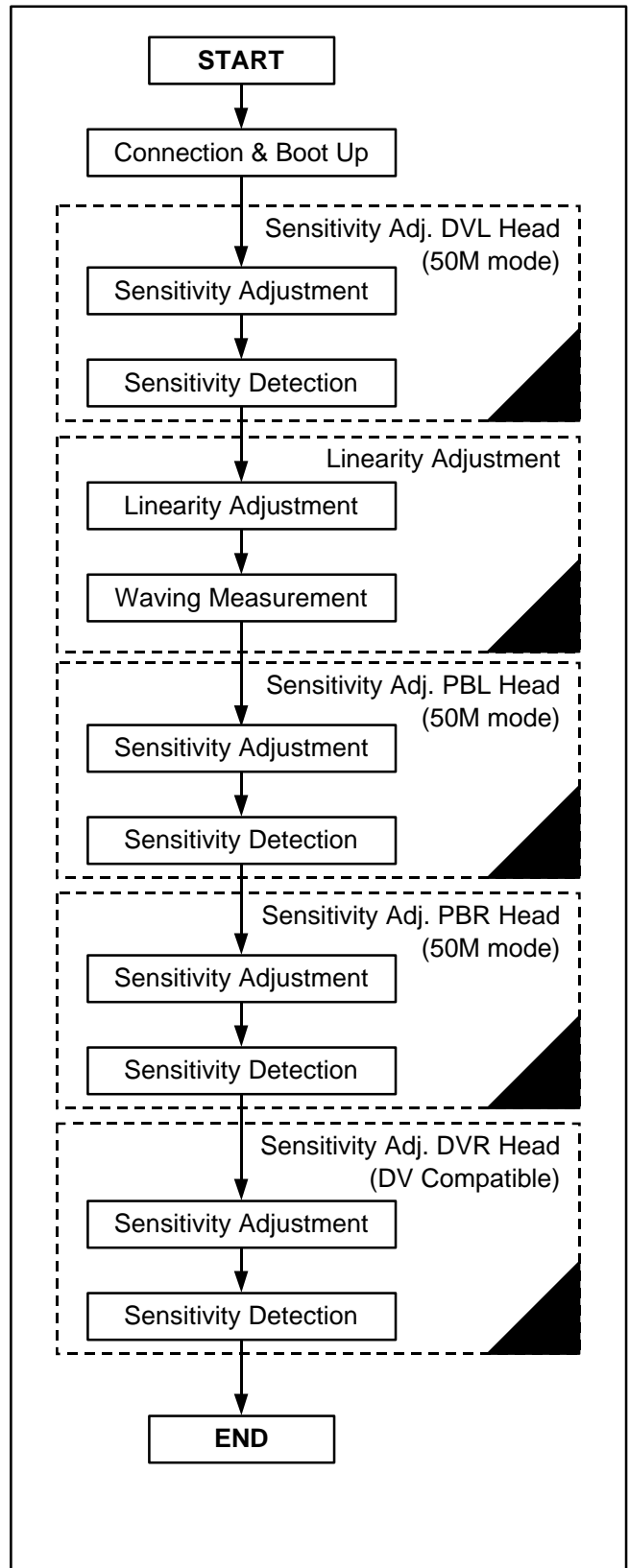
Mode changes 25M ↔ 50M of LISTA software can be performed on the LISTA main menu by press “0” key on Keyboard of PC..



### Procedure (5) (4X Transmitter)



### Procedure (6) (AJ-D940)





### 3-30. LISTA Connection and Boot Up

TEST POINT	ATF ERR	Refer to item “2. Table of Test Point”.
	HSW RP	
	HSW PB	
	GND	
M. EQ.	PC (Personal Computer) (A/D board should be installed)	
TAPE	NTSC : VFM3581KM or VFM3581KL (LISTA), VFM3000EDS (DV LISTA)	
	PAL : VFM3681KM or VFM3681KL (LISTA), VFM3000EDS (DV LISTA)	
TOOL	Type	Part No. and Part Name
	A	VFK1481 (LISTA Software), VFK1186 (LISTA Cable)
	B	VFK1481 (LISTA Software), VFK1186 (LISTA Cable), VFKW1000AA (EVR I/F Unit), VFKW1000C (EVR RS232C Cable), VFK1180 (EVR SUB I/F Unit), VFK1187 (EVR Cable)
	C	VFK1481 (LISTA Software), VFK1186 (LISTA Cable), 9P-9P RS232C Cross Cable

#### <Classified list for LISTA Connection>

Type	Models
<b>A</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D780, AJ-D850, AJ-D940, AJ-D950, AJ-D950A, AJ-D92, AJ-D95DC, AJ-DE77, AJ-LT75, AJ-LT85, AJ-D94
<b>B</b>	AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA, AJ-D610
<b>C</b>	AJ-D200, AJ-D210, AJ-D215

1. Connect the LISTA cable to A/D Board in the PC.
2. Connect the clips of the LISTA cable to test point on the P.C.Board.
3. Connect the EVR tool as shown in figure 3-30 about type B models on the above table.
4. Connect the VTR and PC by using the RS232C cross cable about type C models on the above table.

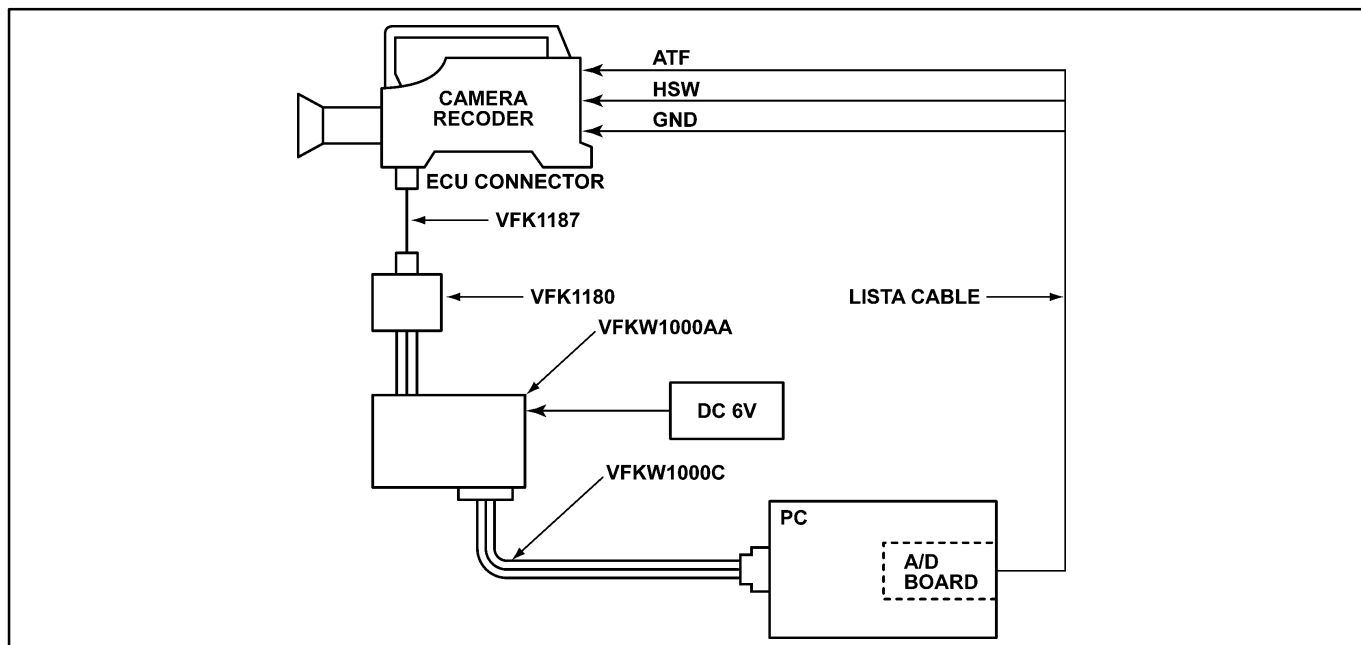


Figure 3-30



5. Boot up the LISTA software on DOS mode.

◆ **How to Installation and Boot Up** ◆

All files on the floppy disk (VFK1481 : LISTA Software) copy to created directly on PC (i.e.; C:\LISTA).

Type “**LISTA**” and press **ENTER** key, then boot up the LISTA software VFK1481.

6. After boot up the LISTA software, <<< FORMAT SELECT >>> display appeared. Select the format according to models as shown below table 1.

**<<< FORMAT SELECT >>> according to Models**

Items	Models
<1> DVCPRO	AJ-D200, AJ-D210, AJ-D215, AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-D400, AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D700, AJ-D700A, AJ-D750, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D850, AJ-LT75, AJ-LT85, AJ-D610
<2> DVCPRO 4X	AJ-DE77, AJ-D780
<3> DVCPRO 50	AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-D92, AJ-D940, AJ-D95DC, AJ-D950, AJ-D950A, AJ-PD900W, AJ-PD900WA, AJ-D94

Table 1

7. After select the format, <<< VTR SELECT >>> display appeared, and select the model follow the table 2, 3 and 4 as shown below.

**<<< VTR SELECT >>> according to Models (In case of “DVCPRO” selected on FORMAT SELECT screen)**

Items	Models
<1> AJ-D750	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850, AJ-LT75, AJ-LT85
<2> AJ-D700	AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D610
<3> AJ-D200	AJ-D200, AJ-D210, AJ-D215

Table 2

**<<< VTR SELECT >>> according to Model (In case of “DVCPRO 4X” selected on FORMAT SELECT screen)**

Item	Model
<1> AJ-DE77	AJ-DE77, AJ-D780

Table 3

**<<< VTR SELECT >>> according to Models (In case of “DVCPRO 50” selected on FORMAT SELECT screen)**

Items	Models
<1> AJ-D900	AJ-D900W, AJ-D900WA, AJ-D910WA
<2> AJ-D950	AJ-D92, AJ-D94, AJ-D940, AJ-D95DC, AJ-D950, AJ-D950A
<3> AJ-D90	AJ-D90
<4> AJ-PD900	AJ-PD900W, AJ-PD900WA

Table 4



Linearity monitor system of track  
using ATF error signal for DVCPRO

-- L I S T A P R O --  
[Service Use]

<<< FORMAT SELECT >>>

<1> DVCPRO

<2> DVCPRO 4X

<3> DVCPRO 50

<4> Quit

Move:Cursor key    Select:[ENTER] key

Linearity monitor system of track  
using ATF error signal for DVCPRO

-- L I S T A P R O --  
(for DVCPRO VTR) [Service Use]

<<< VTR SELECT >>>

<1> A J - D 7 5 0

<2> A J - D 7 0 0

<3> A J - D 2 0 0

Move:Cursor key    Select:[ENTER] key

8. Next, select the Serial number of the Alignment tape on the screen. In case of LISTA software have not resisted data of alignment tape, press the ESC key, then main menu is display on the screen. And select the item "<4> Alignment Tape" for entry the data on the attachment sheet, which is enclosed of alignment tape.
9. In case of LISTA software have resisted data of alignment tape, select the serial number of Alignment tape, then appear message "ok?(y/n)" on the screen. And press "Y" or "ENTER" key, then LISTA main menu is display on screen.

**<< In case of Alignment Tape resisted already >>**

<< Alignment Tape Select >>      Last Select [ 4 ]

No.	Serial No.	PAL/NTSC	Check Sum	Type	Entry Date
[ 1 ]	0000	NTSC	0.0	18 um	10-05-1995
[ 2 ]	0000	PAL	0.0	18 um	02-20-1998
[ 3 ]	LRC-13	NTSC	0.0	10 um	06-01-1998
[ 4 ]	9804420	PAL	0.2	18 um	09-08-1998
[ 5 ]	Lrc-20	PAL	0.0	10 um	09-09-1998
[ 6 ]	9806488	NTSC	0.1	18 um	12-14-1998

<== ok? (y/n)

Move:Cursor key    Select:[ENTER] key    Cancel:[ESC] key

**<< In case of Alignment Tape does not resisted >>**

<< Alignment Tape Select >>      Last Select [ 4 ]

No.	Serial No.	PAL/NTSC	Check Sum	Type	Entry Date
[ 1 ]	0000	NTSC	0.0	18 um	10-05-1995
[ 2 ]	0000	PAL	0.0	18 um	02-20-1998

Move:Cursor key    Select:[ENTER] key    Cancel:[ESC] key



### 3-31. How to Entry the Attachment Data of Alignment Tape

1. Select the item "<4> Alignment Tape" on the LISTA main menu.
2. Select the item "<2> ENTRY" on the alignment menu.
3. After display the screen of <<Alignment Tape Data Entry>>, first input the Serial Number follow the printed number on the tape label. And input the number "0" or "1" for selected the PAL/NTSC. And after that for entry the tape type, incase of DVCPRO input to "0", in case of DV input to "1".
4. After select the tape type, the frame for input the DATA and CHECK SUM appeared on the screen. Input the numerical value in numerical order on the data sheet, which are enclosed with alignment tape. If input the wrong number, appear the error message on the screen, then confirm that the data on the sheet.
5. After entry the data, select "<1> SELECT" on the Alignment Tape Menu and select the serial number of the alignment tape.

<< Alignment Tape Data Entry >>      Serial No. 0596003 (NTSC) 18um

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS]	- 0.6
------	-------



### 3-32. LISTA Sensitivity Adjustment and Sensitivity Detection

TEST POINT	ATF ERR	Refer to item “2. Table of Test Point” and [LISTA Adjustment Mode] on “Table of Test Point”.
	HSW	
	GND	
VTR MODE	PLAY	
ADJ. MODE	Select the mode according to adjusting Heads and adjustment mode. Refer to [LISTA Adjustment Mode] on “Table of Test Point”.	
ADJUST (ATF GAIN)	Select the mode according to adjusting Heads and adjustment mode. Refer to [LISTA Adjustment Mode] on “Table of Test Point”.	
TAPE	Type	Tape
	A, D, J	NTSC : VFM3581KM (LISTA), PAL : VFM3681KM (LISTA) VFM3000EDS (DV LISTA : When use the DV compatible mode Adj..)
	B, E, F, G, H, I	NTSC : VFM3581KM (LISTA), PAL : VFM3681KM (LISTA)
	C	NTSC : VFM3581KL (LISTA), PAL : VFM3681KL (LISTA)

#### <Classified list for Sensitivity Adjustment>

Type	Models
<b>A</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850
<b>B</b>	AJ-D400, AJ-D610, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A
<b>C</b>	AJ-D200, AJ-D210, AJ-D215
<b>D</b>	AJ-LT75, AJ-LT85
<b>E</b>	AJ-D220, AJ-D230, AJ-D230, AJ-D230H
<b>F</b>	AJ-D780, AJ-DE77
<b>G</b>	AJ-D950, AJ-D950A
<b>H</b>	AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA
<b>I</b>	AJ-D92, AJ-D94, AJ-D95DC
<b>J</b>	AJ-D940

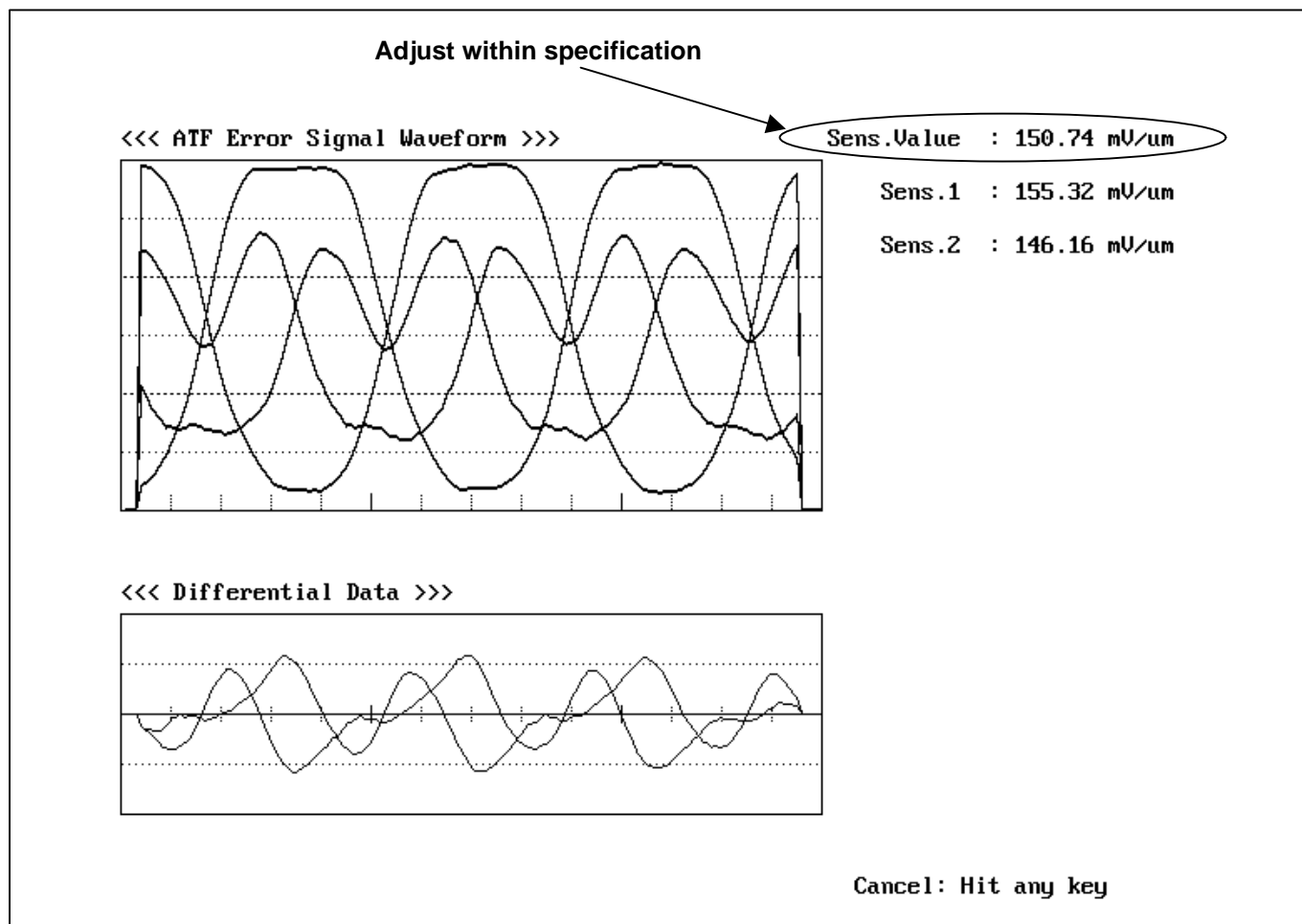
#### <Specification of confirmation and Adjustment according to Models>

Type	Adjustment Heads and Sensitivity Value (mV/μm)							
	Normal (25M Model→25M, 50M Model→50M)				25M Compatible (50M)		DV Compatible	
	R/P Head	PB (L) Head	PB (R) Head	DVL Head	R/P Head	PB Head	R/P Head	DVR Head
<b>A, D</b>	150 ± 15	150 ± 15	-----	-----	-----	-----	130 ± 30	-----
<b>B, C</b>	100 ± 10	-----	-----	-----	-----	-----	-----	-----
<b>E, F</b>	150 ± 15	-----	-----	-----	-----	-----	-----	-----
<b>G, I</b>	150 ± 15	150 ± 15	-----	-----	150 ± 15	150 ± 15	-----	-----
<b>H</b>	100 ± 10	-----	-----	-----	100 ± 10	-----	-----	-----
<b>J</b>	-----	100 ± 10	150 ± 15	150 ± 15	-----	-----	-----	200 ± 20



## Sensitivity Adjustment Procedure (In case of type A, D, E, F, G, I and J Models)

1. Connect the each clips of LISTA cable to test point.
2. Set the adjustment mode according to adjustment heads.  
(Refer to [LISTA Adjustment Modes] of the "Table of Test Point".)
3. Playback the LISTA Alignment Tape.
4. Select the item "<6> ATF Error Signal Monitor" on the LISTA main menu, and after appeared message "1.2% Speed. . ." on the screen, press the Enter key, then sensitivity value as real time and waveform appear on the screen as shown below figure.
5. Adjust EVR so that the "Sens. Value" on the upper right corner of the screen is within specification.
6. After finish this adjustment, press the ESC key to return to the main menu.





## Sensitivity Adjustment Procedure (In case of type B and H Models)

1. Connect the each clips of LISTA cable to test points.
2. Set the adjustment mode according to adjustment heads.  
(Refer to [LISTA Adjustment Modes] of the "Table of Test Point".)
3. Playback the LISTA Alignment Tape.
4. Select the item "<6> ATF Error Signal Monitor" on the LISTA main menu, and press the SPACE key and execute the "Initialize". After finish the Initialize, press the "0" key for download the adjustment value of ATF GAIN. Next, press the Enter key and displayed real time sensitivity data.
5. The waveform as shown below figure appeared on the screen, press arrow keys on the keyboard of the PC so that the "Sens. Value" on the upper right corner of the screen is within specification.

**Information 1 :** Press the "↑" or "↓" key : The value changes by 1 step.

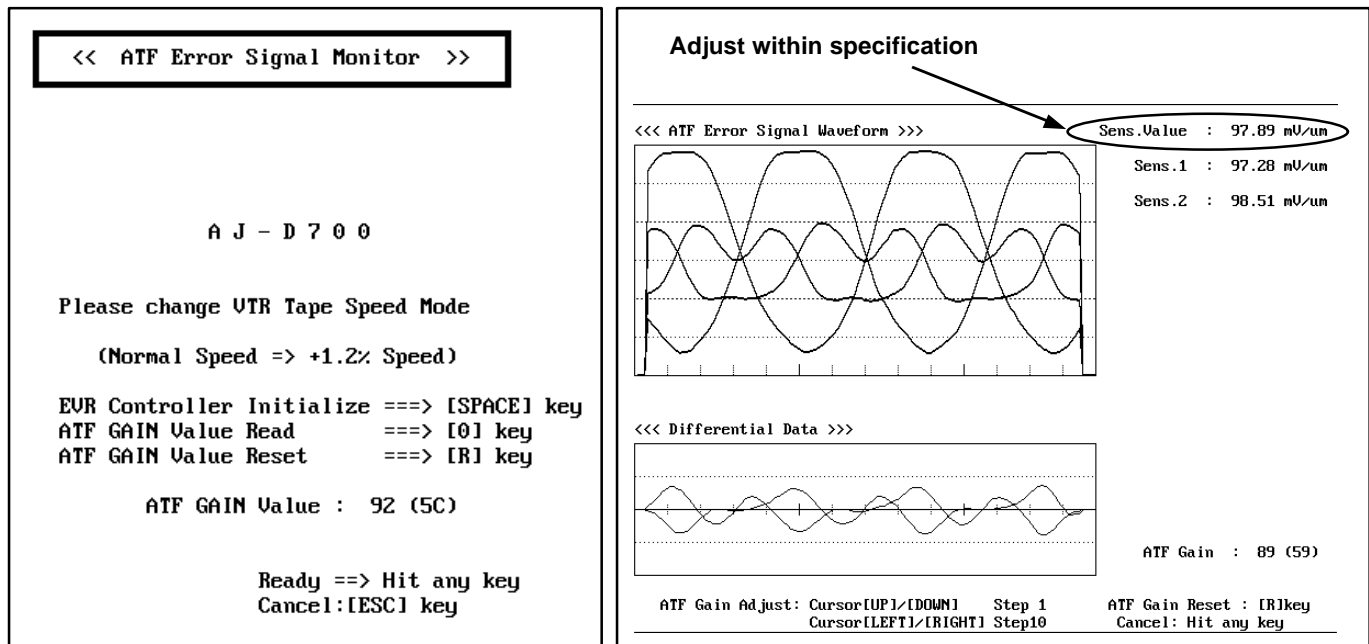
Press the "→" or "←" key : The value changes by 10 step.

After corrected the data, the screen is disappeared momentary during the calculating on LISTA software.

**Information 2 :** The data "85" appear on the screen before adjustment, but this value does not VTR's value.

This value is equal to VTR's value after transmit the data once.

6. After finish this adjustment, press the ESC key to return to the main menu.





## Sensitivity Adjustment (In case of type C Models)

1. Connect the each clips to LISTA cable to test points.
2. Set the adjustment mode according to adjustment heads.  
(Refer to [LISTA Adjustment Modes] of the "Table of Test Point".)
3. Playback the LISTA Alignment Tape.
4. Select the item "<6> ATF Error Signal Monitor" on the LISTA main menu, and press the SPACE key for execute the "RS232C Connector Check". Normally the message "RS232C CONNECTION COMPLETE!!!" and "ATF GAIN value" appeared on screen. After finish the Connection check, press the "0" key for download the adjustment value of ATF GAIN. Next, press the Enter key and displayed real time sensitivity data.
5. The waveform as shown below figure appeared on the screen, press arrow keys on the keyboard of the PC so that the "Sensitivity. Value" on the upper right corner of the screen is within specification.

**Information 1 :** Press the "↑" or "↓" key : The value changes by 1 step.

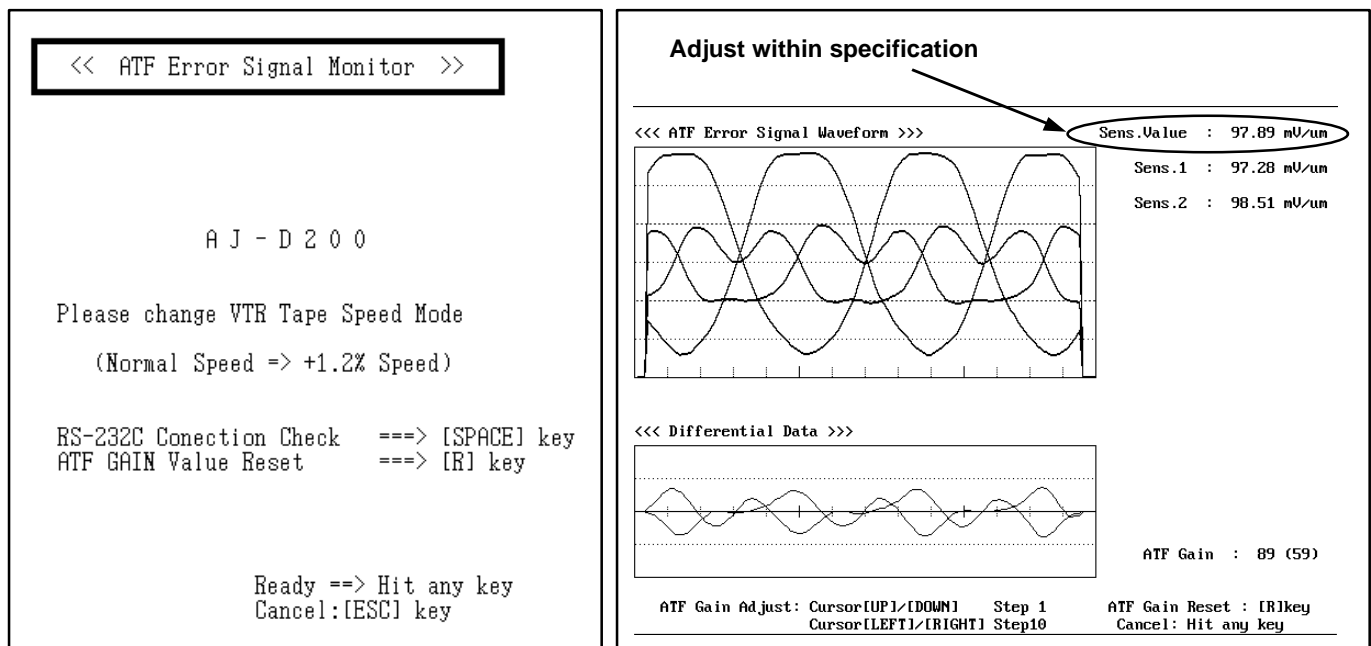
Press the "→" or "←" key : The value changes by 10 step.

After corrected the data, the screen is disappeared momentarily during the calculating on LISTA software.

**Information 2 :** The data "85" appear on the screen before adjustment, but this value is not VTR's value.

This value is equal to VTR's value after transmit the data once.

6. After finish this adjustment, press the ESC key to return to the main menu.





## Sensitivity Detection Procedures (Common to all Models)

1. Set the adjustment mode. (Refer to [LISTA Adjustment Modes] of the "Table of Test Point".)
2. Playback the LISTA Alignment Tape.
3. Select the item "<1> Sensitivity Measurement" on the LISTA main menu, and then appeared "1.2% Speed. . ." on the screen, press the Enter key, and then start measurement of the sensitivity value.
4. Confirm the sensitivity value is within specification, when the message <<Sensitivity Measurement Finish>> and "Sensitivity = Sensitivity Value" are displayed on screen.
5. If it is out of specification, repeat the step item 3 and 4.
6. If still out of specification, execute the "Sensitivity Adjustment" again.

<< Sensitivity Measurement Finish >>

Sensitivity      101.58 (mv/um)

Confirm this value

Sens.1      104.72 (mv/um)

Sens.2      98.44 (mv/um)

Please change VTR Tape Speed Mode

(+1.2% Speed => Normal Speed)

<<< Hit any key >>>



### 3-33. LISTA Linearity Adjustment and Waving Measurement

<b>SPEC.</b>	Linearity : less than 3um, Waving : less than 1.5um <b>NOTE :</b> Confirm the above specification put VTR horizontally and vertically with AJ-D92 and 94. (Refer to figure 1)	
<b>TEST POINT</b>	Refer to [LISTA Adjustment Modes] on item "2. Table of Test Point".	
<b>VTR MODE</b>	PLAY	
<b>ADJ. MODE</b>	Select the mode according to adjusting Heads and mode. Refer to [LISTA Adjustment Mode] on item "2. Table of Test Point".	
<b>ADJUST</b>	S1 and T1 Post Height	
<b>TOOL</b>	VFK1149 (Post Driver)	
<b>TAPE</b>	<b>Type</b>	<b>Tape</b>
	<b>A, B, D, E, F, G, H, I, J</b>	<b>NTSC</b> : VFM3581KM (LISTA) <b>PAL</b> : VFM3681KM (LISTA)
	<b>C</b>	<b>NTSC</b> : VFM3581KL (LISTA) <b>PAL</b> : VFM3681KL (LISTA)

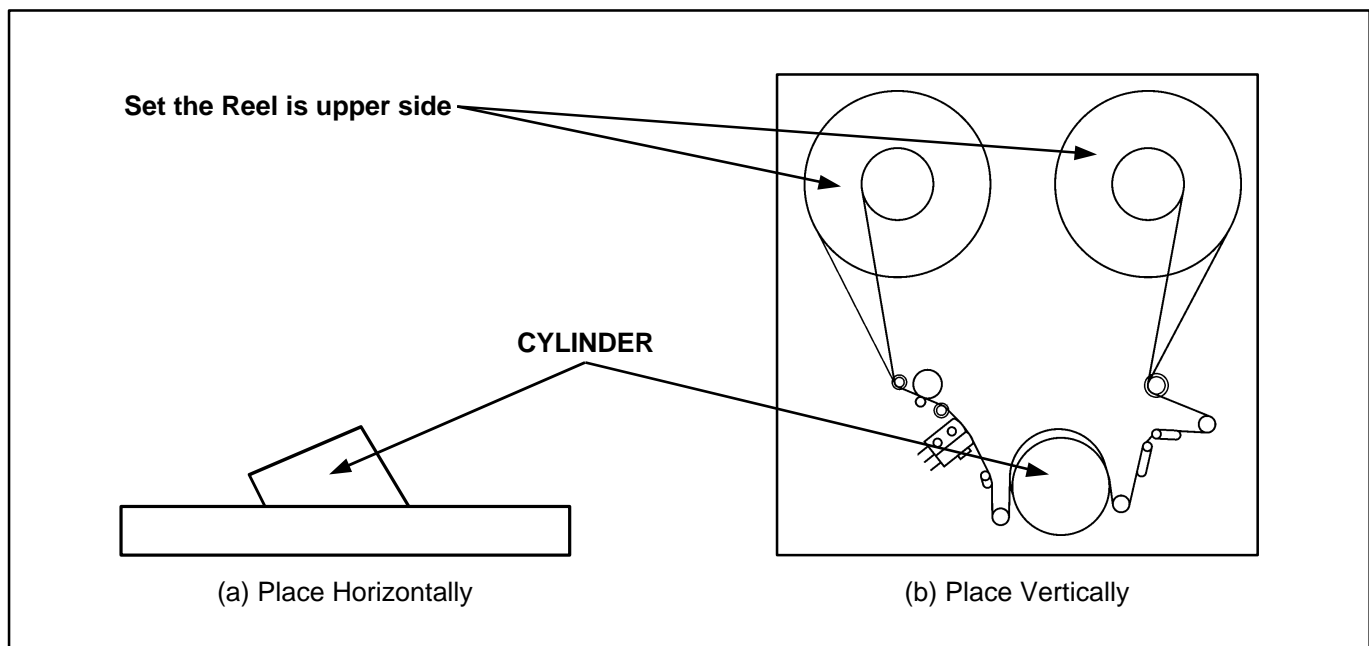
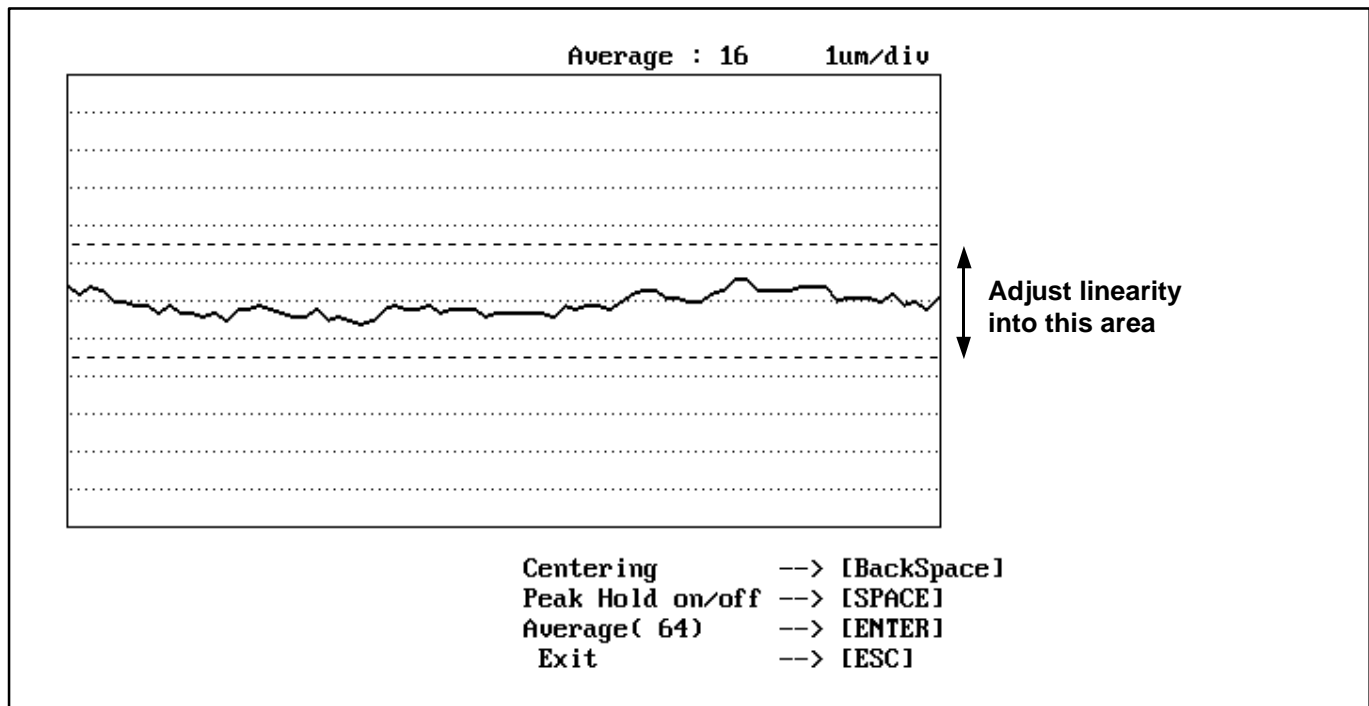


Figure 1



## Linearity Adjustment Procedures

1. Connect the each clips of LISTA cable to test points.
  2. Set the adjustment mode. (Refer to [LISTA Adjustment Modes] on the "Table of Test Point".)
  3. Playback the LISTA Alignment Tape.
  4. Select the item "<2> Linearity Measurement" on the LISTA main menu, and then linearity waveform appeared on the screen.
  5. When the waveform as shown below figure is displayed on the screen, press the "BS (Back Space)" key for display the waveform positioned at the center of the scale on screen. Adjust S1 and T1 post height by using the post driver so that the linearity waveform is become flat as possible, and it should be within specification.
- ◆ Adjust linearity waveform in the red dot line on the screen.



### POINT :

The part of left side of waveform (entrance side) is adjusted by height of S1 post and part of right side of waveform (exit side) is adjusted by height of T1 post.

Lower part of above waveform of figure is displayed lead of Cylinder.

When the post driver is remove from upper part of post, linearity waveform is changed.

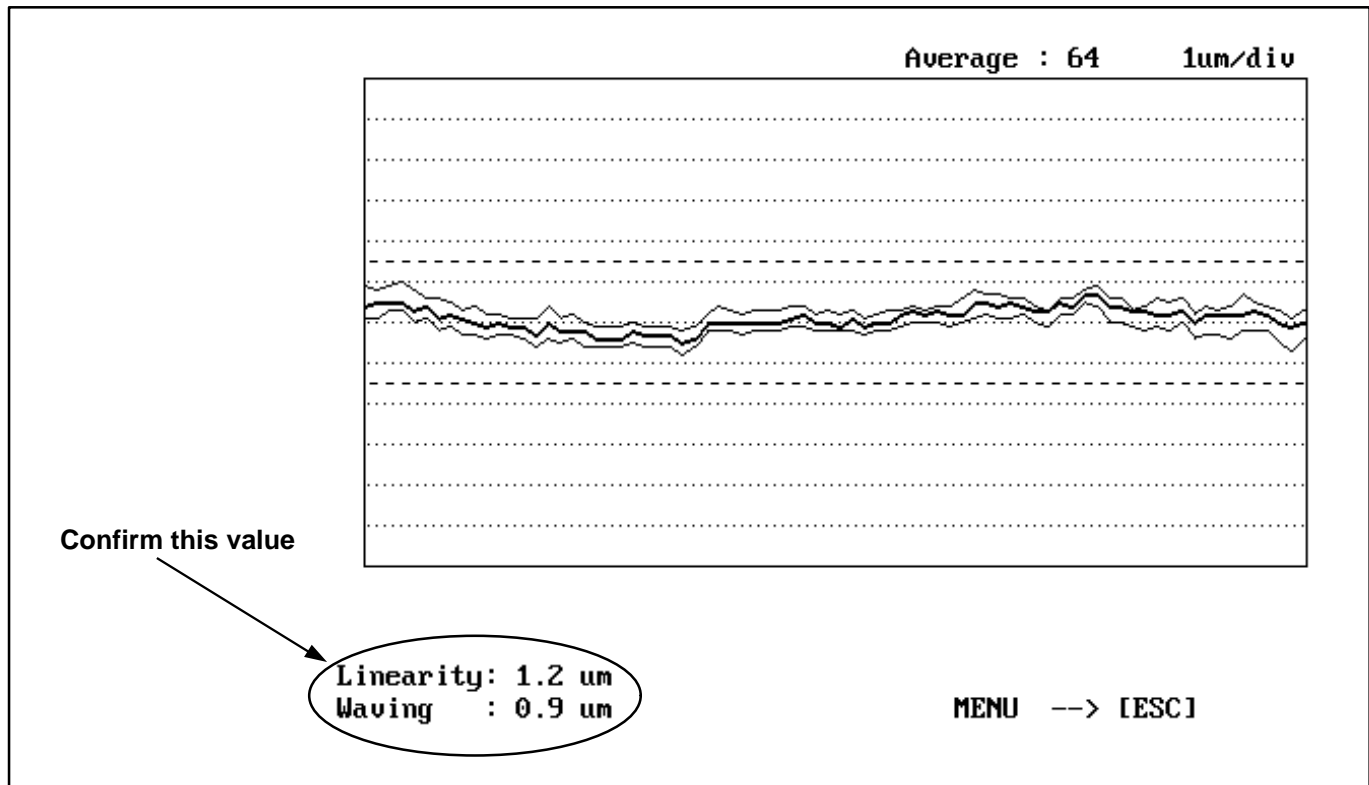
After finish this adjustment, eject the tape and insert the tape again for confirm the shape of linearity waveform does not changed.

6. After finish the Linearity Adjustment, measure the numerical value of linearity and waving.



## Waving Measurement Procedures

1. Press "SPACE" key for make the Peak Hold during 30 seconds when linearity is displayed.
2. After finish the Peak Hold, press "SHIFT" and "}" key simultaneously on the Key Board, then display the numerical values of "Linearity" and "Waving" on left lower portion of screen. And confirm the numerical values are in the specification. Also confirm the range of waving waveform is same quantity from entrance side to exit side. If the "Linearity" and "Waving" are out of specification and it caused by not enough limit of entrance or exit side of envelope, then adjust height of S1 and T1 post.
3. After this measurement is finished, press the ESC key to return to the main menu.



### Information : How to save the LISTA Data

The LISTA software can be saved linearity waveform and measurement value of linearity and waving as one file data to PC.

1. Basically this operation should be performed after linearity and waving measurement finished.
2. Select the item "<3> Data Save/Load" on the LISTA main menu, and select the item "<1> Save".
3. The linearity waveform as Peak Hold displayed on the screen, and after appeared message "File Name?" on the screen. Then entry the File Name less than 8 letters, and after appeared message "Comment?" on the screen. Then entry the Comment less than 20 letters. As comment, entry the Serial Number, Model Number, Head Rotation Hours etc, for use management of linearity data of each VTR and Camera Recorder.
4. After completion of saving, select the item "<2> Load" of the item "<3> Data Save/Load", then appear the saved File Name on the screen. And select it previous saved file for confirm the waveform and numerical value displayed correctly. By press "SHIFT" and "}" key simultaneously on the Key Board, then display the numerical values of "Linearity" and "Waving" on left lower portion of screen.

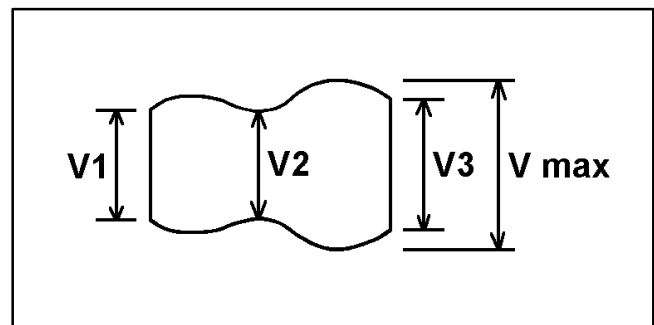


### 3-34. Self-REC/PLAY Envelope Waveform Confirmation

<b>SPEC.</b>	<p>All of the head output are within specification as shown below.          Confirm in the 50M mode when your VTR or Camera Recorder is 50M model.</p> <ul style="list-style-type: none"> <li>When using the M Cassette (66 min.) or L Cassette (126 min.)             <ul style="list-style-type: none"> <li><math>V1/V_{max}, V3/V_{max} \geq 0.7</math></li> <li><math>V2/V_{max} \geq 0.8</math></li> </ul> </li> <li>When using the Long Time L Cassette (correspondence model only)             <ul style="list-style-type: none"> <li><math>V1/V_{max}, V2/V_{max}, V3/V_{max} \geq 0.7</math></li> <li><math>V4/V_{max} \geq 0.5</math></li> </ul> </li> </ul>
<b>TEST POINT</b>	<p>All R/P Envelope : Refer to item "2. Table of Test Point"</p> <p>All PB Envelope (B type models only) : Refer to item "2. Table of Test Point"</p> <ul style="list-style-type: none"> <li>Confirm the all of the channels.</li> <li>Confirm the PB envelope too about B type models.</li> </ul>
<b>M. EQ.</b>	Oscilloscope
<b>TAPE</b>	<ul style="list-style-type: none"> <li>M Cassette (66 min.) or L Cassette (126 min.)</li> <li>Long Time L Cassette (correspondence model only)</li> </ul>
<b>TOOL</b>	VFK1149 (Post Driver)

#### <Classified List>

Type	Models
A	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D610, AJ-D700, AJ-D700A, AJ-D780, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA, AJ-DE77
B	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D850, AJ-D92, AJ-D94, AJ-D95DC, AJ-D940, AJ-D950, AJ-D950A, AJ-LT75, AJ-LT85



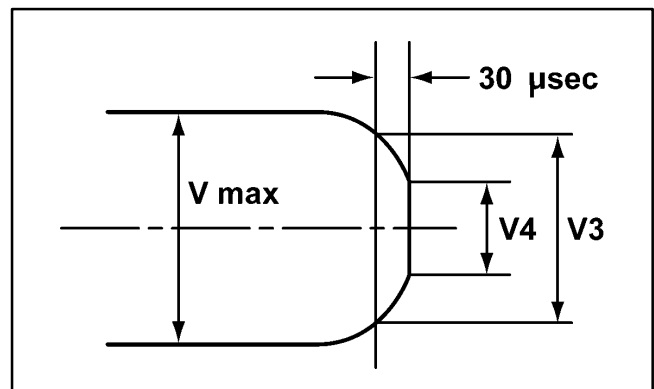
1. Input the color bar signal and record it.
2. Playback the just recorded portion, and confirm the envelope output is within specification.
3. If it is out of specification, perform the "ENV Waveform Adjustment" and "LISTA Adjustment" again.

#### NOTE 1 :

The model of AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900WA and AJ-PD900WA, which models should be connect to BER COUNTER (refer to item "Envelope Waveform Adjustment").

#### NOTE 2 :

In case of AJ-D940, setting on Service Menu required. (refer to item 3-11.)





## 4. No Tape Loading Procedures

### [ Classified List of DVCPRO VTR for No Tape Loading ]

Type	Models
<b>A</b>	AJ-D750, AJ-D850, AJ-D940, AJ-D950, AJ-D950A, AJ-DE77
<b>B</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D780
<b>C</b>	AJ-LT75, AJ-LT85
<b>D</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250
<b>E</b>	AJ-D92, AJ-D94, AJ-D95DC
<b>F</b>	AJ-D200, AJ-D210, AJ-D215, AJ-D400, AJ-D610, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D90, AJ-D900W, AJ-D900WA, AJ-D910WA, AJ-PD900W, AJ-PD900WA

### 4-1. In case of Model Type A, B, C, D and E

#### [ Procedure ]

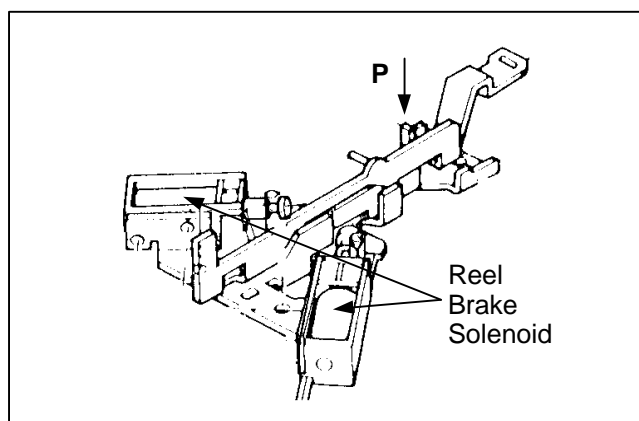
Type	Selected Menu (on Service Menu)	Selected Item	Loading Procedure	Unloading Procedure	Remarks
<b>A</b>	SERVO ADJUST	T TORQUE	Press <b>SEARCH</b> button	Press <b>SEARCH</b> button	During press SEARCH button, hold the loading condition.
<b>B</b>	SERVO ADJUST	T TORQUE	Press <b>STOP</b> button	Press <b>STOP</b> button	During press STOP button, hold the loading condition.
<b>C</b>	SERVO ADJUST	T TORQUE	Press <b>SHIFT</b> button	Press <b>SHIFT</b> button	During press SHIFT button, hold the loading condition.
<b>D</b>	SERVO ADJUST	TENSION OFST	Press <b>BEGIN</b> button	Press <b>BEGIN</b> button	-----
<b>E</b>	SERVO ADJUST	T TORQUE	Press <b>MODE</b> button	Press <b>SET</b> button	-----

### 4-2. In case of Model Type F

#### [ No Tape Loading Procedure ]

Set the tube to cover the SENSOR LED and press the lever P to place the unit no tape loading mode.

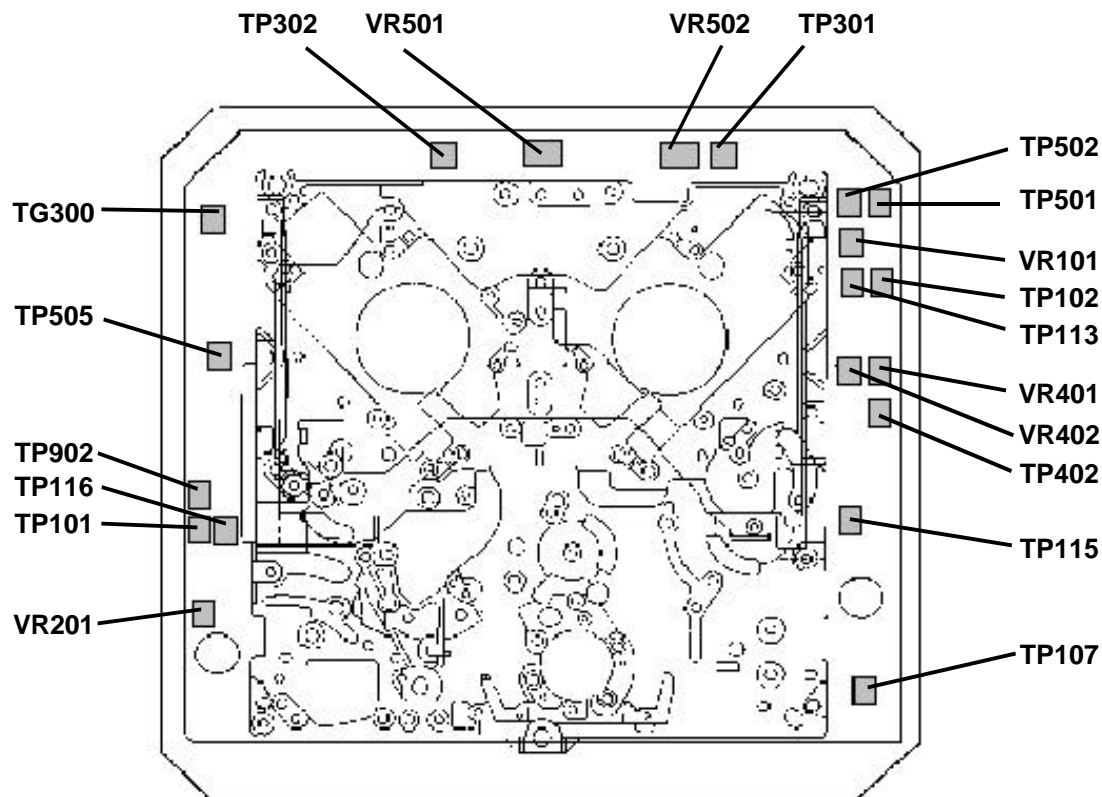
**NOTE :** Make the tube by yourself.



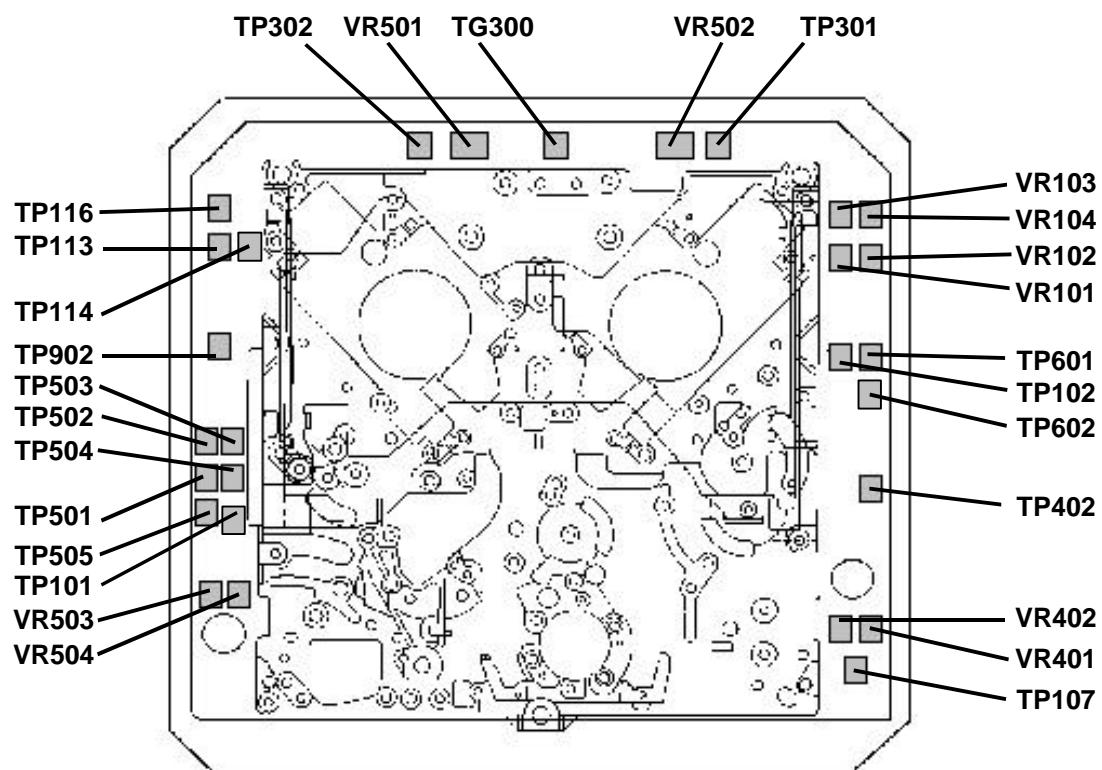


## 5. Test Point and VR Location for CAMERA RECORDER

### 5-1. AJ-D400, AJ-D700 and AJ-D800 Series

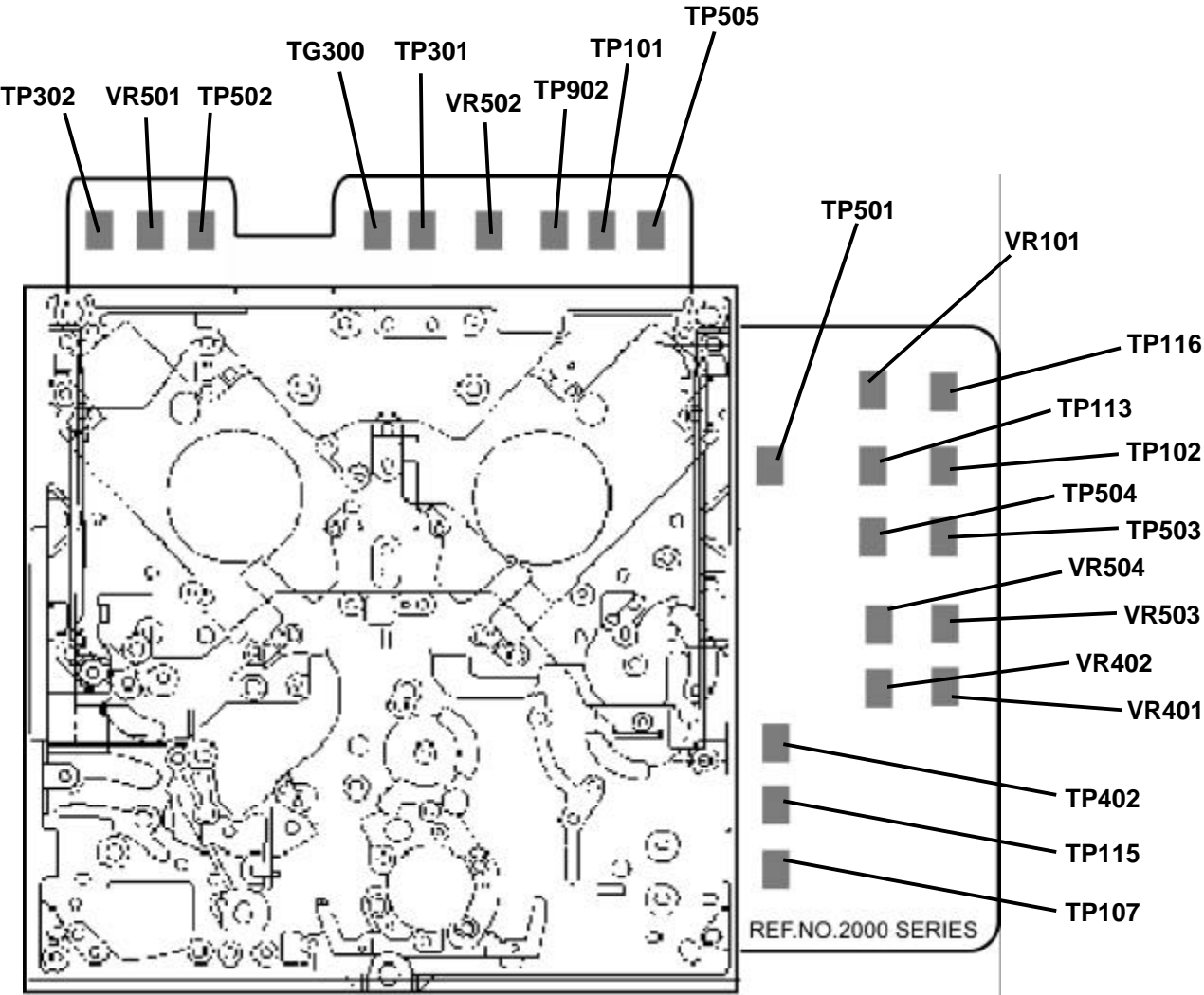


### 5-2. AJ-D90, AJ-D610, AJ-D810, AJ-D900 and AJ-D910 Series





5-3. AJ-D200, AJ-D210 and AJ-D215 Series





# SECTION 3

## MAJOR MECHANICAL PARTS REPLACEMENT & ADJUSTMENT PROCEDURES

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# 1. Major Mechanical Parts Replacement & Adjustment Procedures

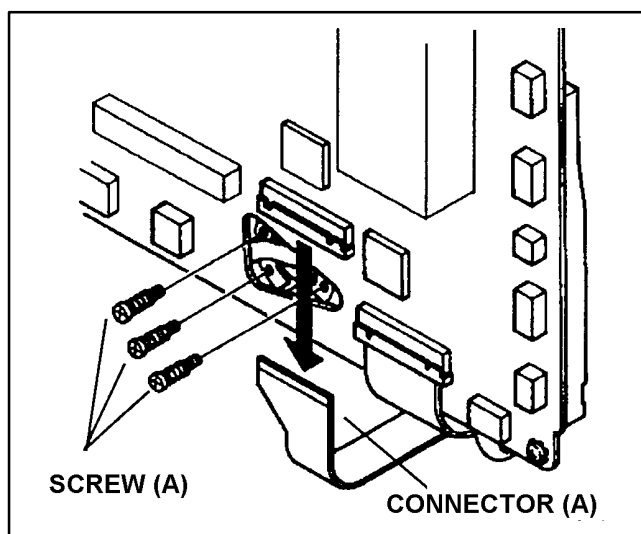
## GENERAL

This procedure is mentioned some name of P.C.Board and connector number. The name of P.C.Board and number of connector are difference each DVCPRO VTR and CAM CODER. Therefore each models classified 4 types as indicated as below table <CHART A>. If the item (1-1 to 1-31) have table <CHART B>, the model No. is discriminated by <CHART A>.

With item of "1-6.Confirmation of Main Brake Torque", is described two difference specification. Please select the specification follow the <CHART C>.

<CHART A>

<b>TYPE A</b>	AJ-D440, AJ-D450, AJ-D640, AJ-D650, AJ-D750, AJ-D780, AJ-D850, AJ-D940, AJ-DE77, AJ-D950, AJ-D950A,
<b>TYPE B</b>	AJ-D220, AJ-D230, AJ-D230H, AJ-D250, AJ-LT75, AJ-LT85, AJ-D95DC, AJ-D92, AJ-D94,
<b>TYPE C</b>	AJ-D400, AJ-D700, AJ-D700A, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D90, AJ-D900W, AJ-PD900W, AJ-D900WA, AJ-PD900WA, AJ-D910WA, AJ-D610,
<b>TYPE D</b>	AJ-D200, AJ-D210, AJ-D215



When mechanical parts are replaced, pay attention to the following notes.

1. Always turn power off before replacing any parts.
2. If any adjustment is required replacing parts, perform the required adjustment.
3. Use proper hard tools of fixtures.
4. Be sure to clean the parts after replacement, also when the mechanical parts are replaced, follow the replacement procedure.

## 1-1. Cylinder Unit Replacement

<CHART B>

Model Type	TYPE A	TYPE B	TYPE C,D
Connector (A)	P33	P2033	P613
P.C.Board (B)	MECH I/F	SERVO	SERVO



### (Removal)

1. Remove the T1 Guide and Cleaning Arm Unit.  
(Please refer to item "1-2. Cleaning Arm Unit Replacement")

Figure 1-1-1

2. Unscrew the screw (B) which fix the cable (B) as shown in Figure 1-1-2.
3. Remove the flexible cable which connected to connector (A) on the P.C.Board (B) as shown in 1-1-1.
4. Unscrew the 3 screws which have spring from the Cylinder Unit as shown as Figure 1-1-1, then remove the Cylinder Unit without touching any mechanical parts as shown in Figure 1-1-2.

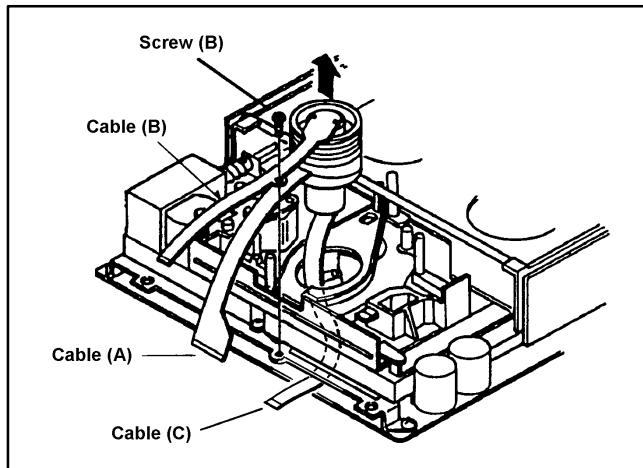


Figure 1-1-2

### NOTE:

Never touch the cylinder by finger directly, when pull out the Cylinder Unit.

### (Installation)

1. Install the new Cylinder Unit according to the opposite procedures to removing.

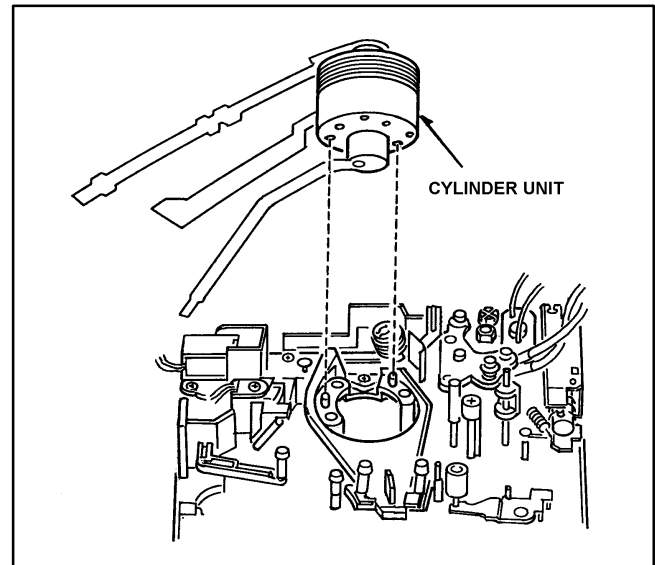


Figure 1-1-3

### NOTE:

When installing the Cylinder Unit, the pin on Mech. Chassis should match hole of Cylinder Unit as shown in Figure 1-1-3.

2. After installing the T1 Guide, T1 Guide Position Adjustment should be performed.  
(Please refer to item "1-2. Cleaning Arm Unit Replacement" and "1-3. T1 Guide Position Adjustment")

## 1-2. Cleaning Arm Unit Replacement

### (Removal)

1. Unscrew the 2 screws (A) and remove the T1 Guide as shown in Figure 1-2.
2. Widen the tip of the cleaner arm, lift up the cleaning arm unit and remove the spring and washer.

### (Installation)

1. Install the spring and washer.



2. Cleaning Arm Unit insert temporary to T2 Arm Unit. Install the spring to between Cleaner Base Plate and Cleaning Arm Unit, and insert perfectly Cleaner Arm Unit to T2 Arm Unit.
3. Rotate the cylinder by hand in the pressing the core of the Cleaner Solenoid, and confirm that the Cleaner Roller rotate.
4. Install the T1 Guide.
5. After install the T1 Guide, please perform the item "1-3. T1 Guide Position Adjustment".

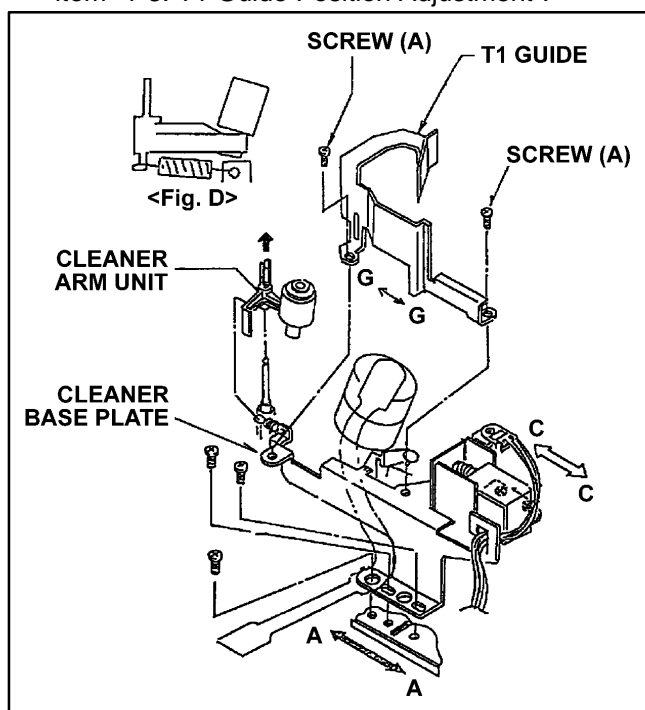


Figure 1-2

### 1-3. T1 Guide Position Adjustment

1. Place the unit to loading condition without the tape.

#### NOTE :

Please refer to item "4.No Tape Loading Procedure" on Section 2. And refer to the item No tape loading procedure on the service manual, if the model does not mentioned at Classified list.

2. Observe the clearance (B) between T1 Guide and T1 post as shown in Figure 1-3, and make sure that it is within 0.2mm to 0.5mm.
3. If not, loosen the 2 screws (A) and adjust the position of the T1 Guide moves to direction of arrow (G  $\longleftrightarrow$  G) so that the clearance (B) is within specification. And tighten the 2 screws (A).



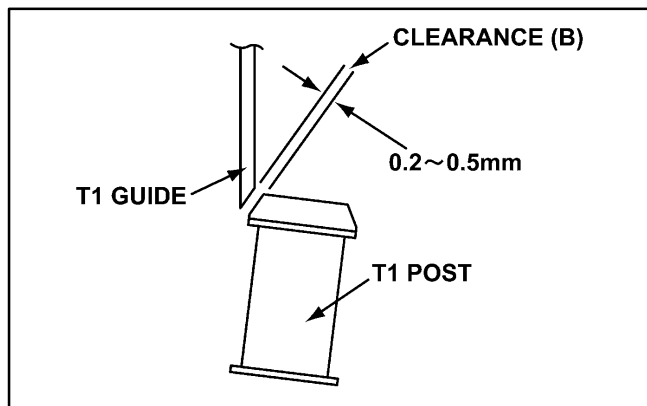
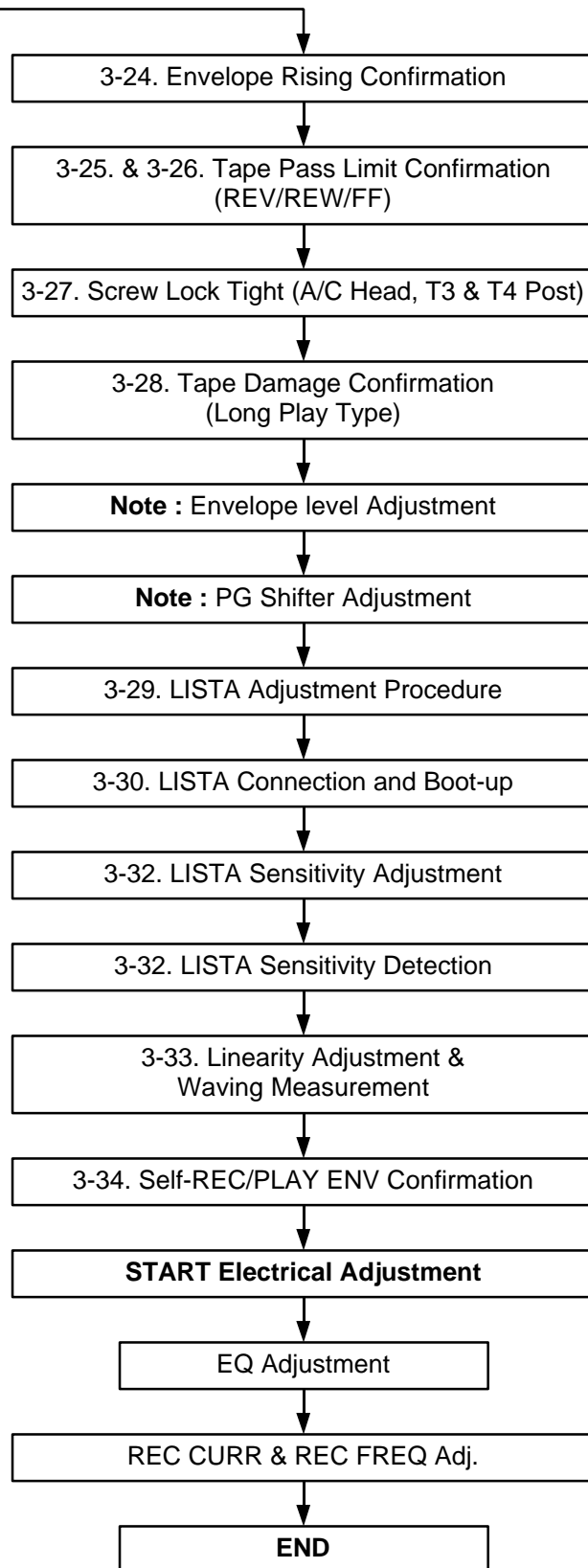
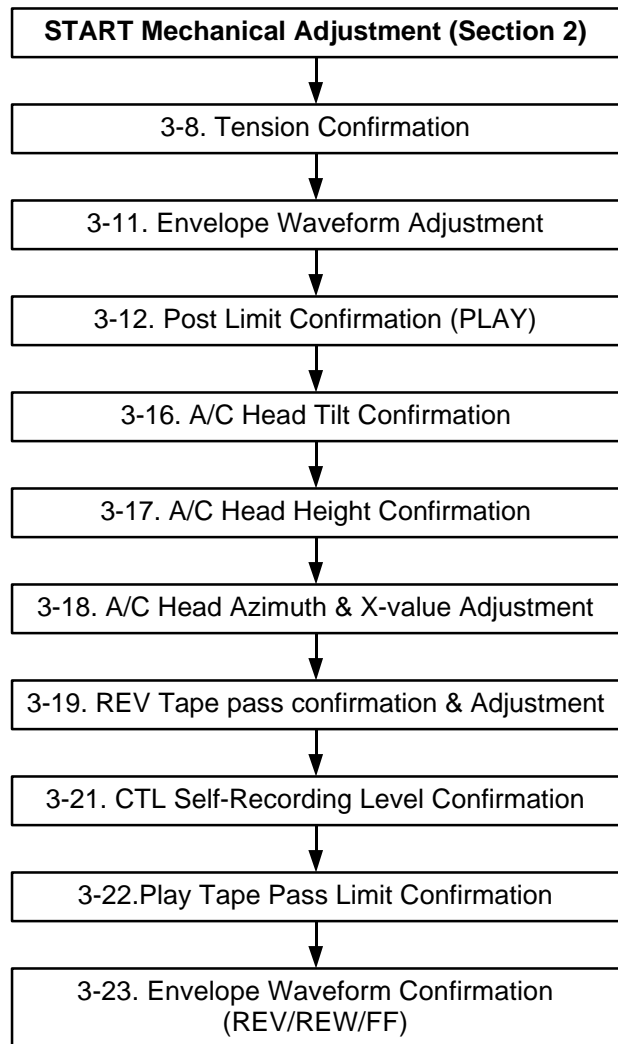


Figure 1-3

## 1-4. Adjustment Flow Chart after Cylinder Unit Replacement

1. After change the Cylinder Unit, please perform the following flow chart.



### NOTE:

Envelope level and PG Shifter adjustment procedure are mentioned on Electrical Adjustment Procedure on Service Manual.



## 1-5. Supply & Take-up Reel Rotor Unit Replacement (except Camera Recorder)

### <CHART B>

Model Type	TYPE A	TYPE B
Connector (A)	P34	P2034
Connector (B)	P35	P2034
P.C.Board (C)	MECH I/F	SERVO

### (Removal)

1. Disconnect the **connector (A)** and **(B)** on the **P.C.Board (C)**. (Please refer to above chart.)
2. Move the S1 post to loading direction by manual ejecting method until the screw (C) can removing position as shown in Figure 1-5-1.
3. Confirm the supply and Take Up Brake are not release.
4. Press the iron core of M stopper solenoid to release the M stopper.
5. Remove the 4 screws (C), (D) and (E) as shown in Figure 1-5-1.
6. Remove the Supply and Take Up Reel Rotor Unit and Reel Outer Rail a shown in Figure 1-5-2.

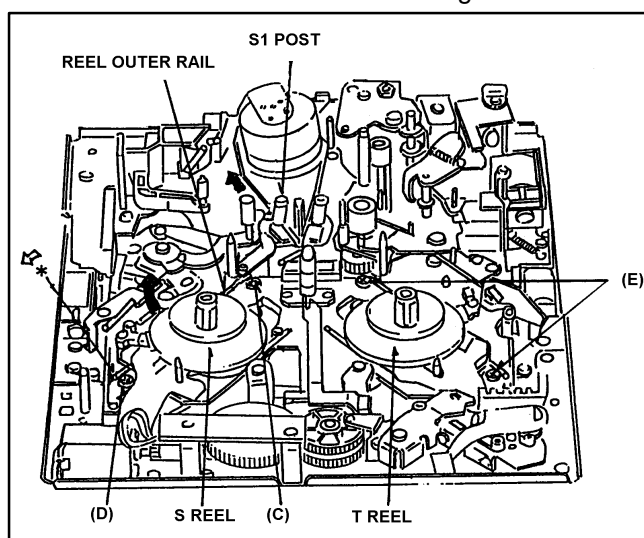


Figure 1-5-1

### NOTE:

Memorized the groove position of Reel Base, which inserted the pin of Drive Arm Unit.

### (Installation)

1. Through in the Reel Outer Rail to New Supply and Take Up Reel Rotor Unit.
2. Hang on the Reel Rotor Unit to Reel Inner Rail and Install the Reel Rotor Unit then the pin of Drive Arm Unit should be matched with groove position of Reel Base as shown in Figure 1-5-2.
3. Install the 4 screws (C), (D) and (E).
4. Confirm that the Reel Rotor Unit moving smoothly on the Rail by hand.
5. Move the Reel Rotor Unit to front side by hand and then pull up the iron core of M stopper solenoid for operating M stopper.
6. Set the unloading condition by turn the Emergency shaft counter-clockwise.
7. Confirm that the Main Brake Torque.
8. Connect the Flexible Cable to **connector (A)** and **(B)** on the **P.C.Board (C)**.
9. Adjust the S Reel Torque Offset value.
10. Adjust the T Reel Torque Offset value.
11. Adjust the S Reel Motor Torque Offset value.
12. Adjust the T Reel Motor Torque Offset value.
13. Confirm that the Tension value on playback mode.

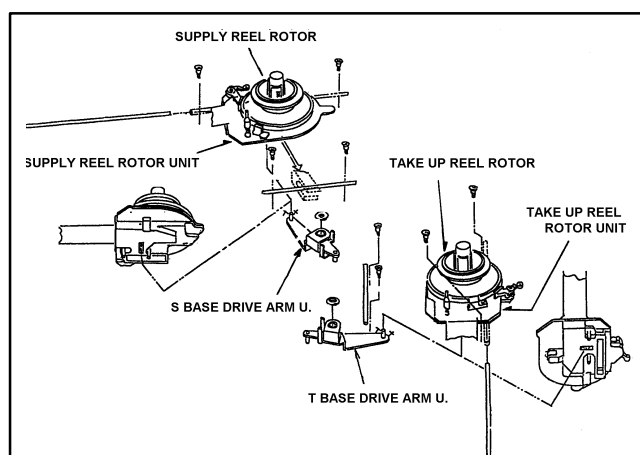


Figure 1-5-2



## 1-5. Supply & Take-up Reel Rotor Unit Replacement (Camera Recorder only)

### <Supply Reel Rotor Unit Replacement>

#### (Removal)

1. Disconnect the connector P614 on the SERVO P.C.Board.
2. Remove the S5 Post. (Refer to item "1-17")
3. Pull up the Arm Return Spring on the Connection Arm Angle Side.
4. Remove the Connection Arm Angle.
5. Remove the Cut Washer (A) and (B) to remove the Idler Arm Unit as shown in Figure 1-5-3.
6. Unscrew the 4 screws (C) to remove the Supply Reel Rotor Unit.
7. Unscrew the 2 screws (D) to remove the S-Side M Stopper from Supply Reel Rotor Unit.

#### CAUTION:

Don't touch FG portion with the magnetized screw driver , when unscrewing the screw (D).

#### (Installation)

1. Install the new Supply Reel Rotor Unit according to the opposite procedures to removing.
2. Execute the Reel Torque Offset Adjustment.
3. Adjust the Motor Torque Offset value.
4. Confirm the tape tension on playback mode.

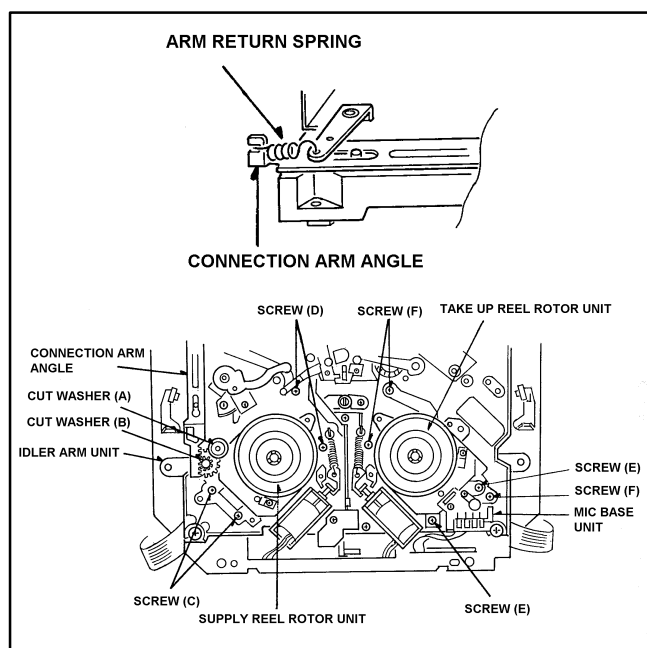


Figure 1-5-3

### <Take-up Reel Rotor Unit Replacement>

#### (Removal)

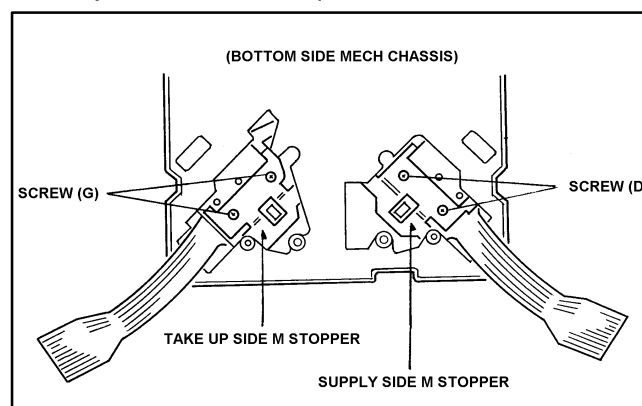
1. Disconnect the connector P615 on the Servo P.C.Board and unscrews the 2 screws (E) ,and then remove the MIC Base Unit as shown in Figure 1-5-3.
2. Unscrew the 3 screws (F) to remove the Take Up Reel Rotor Unit as shown in Figure 1-5-3.
3. Unscrew the 2 screws (G) to remove the T-Side M Stopper from Take Up Reel Rotor Unit as shown in Figure 1-5-3.

#### CAUTION:

Don't touch FG portion with the magnetized screw driver when unscrewing the screw (D).

#### (Installation)

1. Install the new Take Up Reel Rotor Unit according to the opposite procedures to removing.
2. Execute the Reel Torque Offset Adjustment.
3. Adjust the Motor Torque Offset value.



4. Confirm the tape tension on playback mode.

Figure 1-5-4



## 1-6. Main Brake Torque Confirmation

<b>TEST</b>	S Reel, T Reel
<b>MODE</b>	EJECT (Power OFF)
<b>TOOL</b>	Torque Gauge (VFK71, VFK1191) Torque Gauge Adapter (VFK1152)
<b>ADJUSTMENT SPECIFICATION</b>	
<b>Direction A</b>	
<b>TYPE A</b>	<b>TYPE B</b>
3.9mN-m $\pm$ 2mN-m (40g-cm $\pm$ 20g-cm)	More than 7.8mN-m (more than 80g-cm)
<b>Direction B</b>	
<b>TYPE A</b>	<b>TYPE B</b>
2mN-m $\pm$ 2mN-m (20g-cm $\pm$ 10g-cm)	More than 1.5mN-m (more than 15g-cm)

### <CHART C>

<b>TYPE A</b>	AJ-D200, AJ-D210, AJ-D215, AJ-D220, AJ-D230, AJ-D400, AJ-D640, AJ-D650, AJ-D700, AJ-D700A, AJ-D750, AJ-D780, AJ-D800, AJ-D800A, AJ-D810, AJ-D810A, AJ-D90, AJ-D900W, AJ-PD900W, AJ-D900WA, AJ-PD900WA, AJ-D910WA, AJ-D950, AJ-D950A, AJ-DE77, AJ-LT75, AJ-LT85, AJ-D610
<b>TYPE B</b>	AJ-D230H, AJ-D250, AJ-D440, AJ-D450, AJ-D850, AJ-D92 AJ-D940, AJ-D95C, AJ-D94

1. Install the adapter (VFK1152) to the torque gauge (VFK71).
2. Put the torque gauge on S Reel and turn the torque gauge to direction A until S Reel slips against brake.
3. Confirm the torque is within specification.
4. Put the torque gauge on T Reel and turn the torque gauge to direction A until T Reel slips against brake.
5. Confirm the torque is within specification.
6. Install the adapter (VFK1152) to the torque gauge (VFK1191).

7. Put the torque gauge on S Reel and turn the torque gauge to direction B until S Reel slips against brake.
8. Confirm the torque is within specification.
9. Put the torque gauge on T Reel and turn the torque gauge to direction B until T Reel slips against brake.
10. Confirm the torque is within specification.

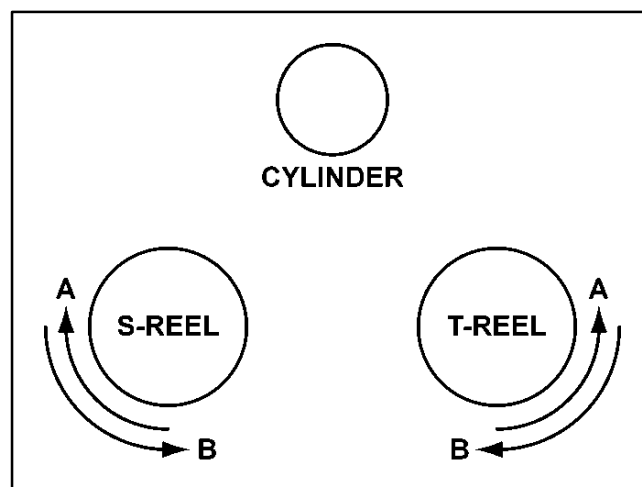


Figure 1-6

## 1-7. Supply & Take-up Brake Arm Unit Replacement (except Camera Recorder)

### (Removal)

1. Press the iron core of Brake Solenoid for release the Brake.
2. Remove the cut washers (A) and remove the supply and Take Up Brake Arm Unit as shown in Figure 1-7.

### (Installation)

1. When install the new Brake Arm Unit first, hang on the Brake Arm Spring as shown in Figure 1-7.
2. Follow the previous steps in reverse order.
3. Execute the Main Brake Torque confirmation.



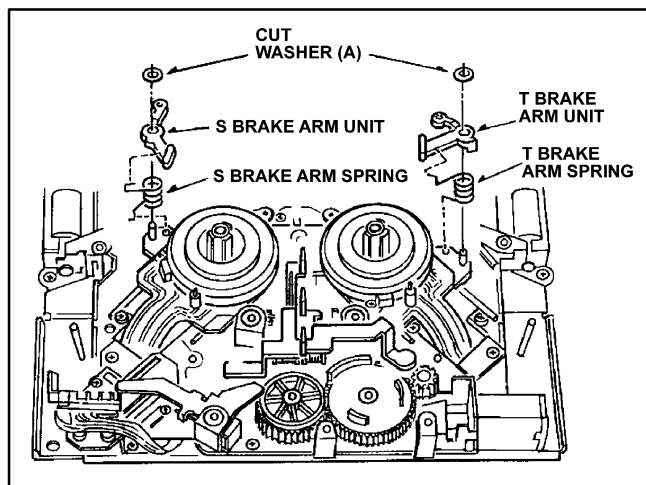


Figure. 1-7

## 1-8. Supply Brake Solenoid Replacement and Adjustment (except Camera Recorder)

### <CHART B>

Model Type	TYPE A	TYPE B
Connector (A)	P15	P2015
P.C.Board (B)	MECH I/F	SERVO

### (Removal)

1. Disconnect the **connector (A)** on the **P.C.Board (B)**. (Refer to above chart.)
2. Unscrew the 2 screws (A) and remove the Supply Brake Solenoid Base Unit as shown in Figure 1-8-1.
3. Unscrew the 2 screws (B) and remove the supply Brake Solenoid from Supply Brake Solenoid Base Unit as shown in Figure 1-8-1.

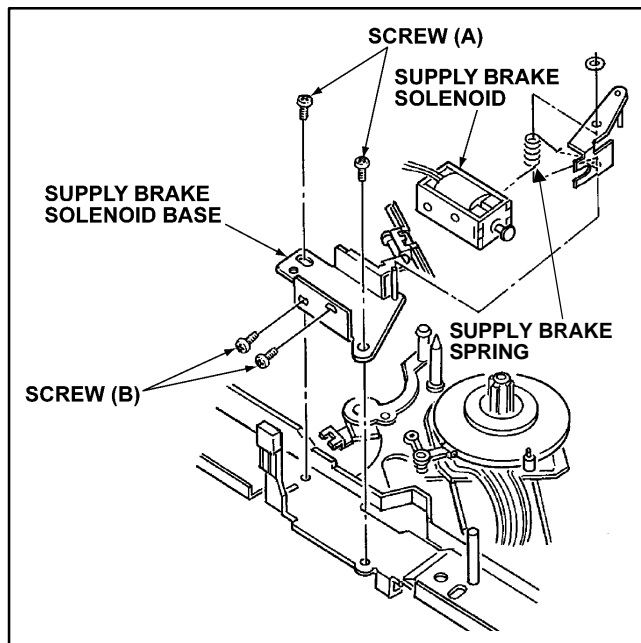


Figure. 1-8-1

### (Installation)

1. Install the new supply Brake Solenoid follow the removal steps in reverse order.

### NOTE :

Hang on the Brake Arm Spring as shown in Figure 1-8-1.

2. After installing, execute the position adjustment as following procedures.

### (Adjustment Procedures)

1. Place the reels in the M cassette size position.
2. Observe the clearance (A) between Brake pad and it's turntable as shown in Figure 1-8-2. And make sure that it is within 0.2 to 0.5mm.
3. If not, loosen the 2 screws (A), which fixed supply and Take Up Brake Solenoid Unit. And adjust the position of Brake Solenoid Unit by moving arrow direction so that the clearance (A) is within specification. And tighten the 2 screws (A).
4. After adjustment, change the reel position to S and L cassette size, and confirm that the clearance (A) is within specification.



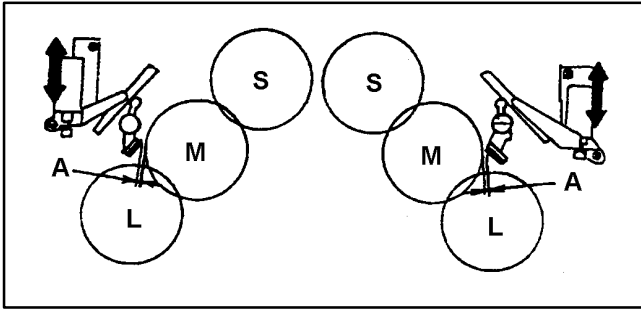


Figure 1-8-2

## 1-9. Take-up Brake Solenoid Replacement and Adjustment (except Camera Recorder)

### <CHART B>

Model Type	TYPE A	TYPE B
Connector (A)	P15	P2015
P.C.Board (B)	MECH I/F	SERVO

#### (Removal)

1. Disconnect the **connector (A)** on the **P.C.Board (B)**. (Refer to above chart.)
2. Unscrew the 2 screws (A) and remove the Take Up Brake Solenoid Base Unit as shown in Figure 1-9.
3. Unscrew the 2 screws (B) and remove the Take Up Brake Solenoid from Take Up Brake Solenoid Base Unit as shown in Figure 1-9.

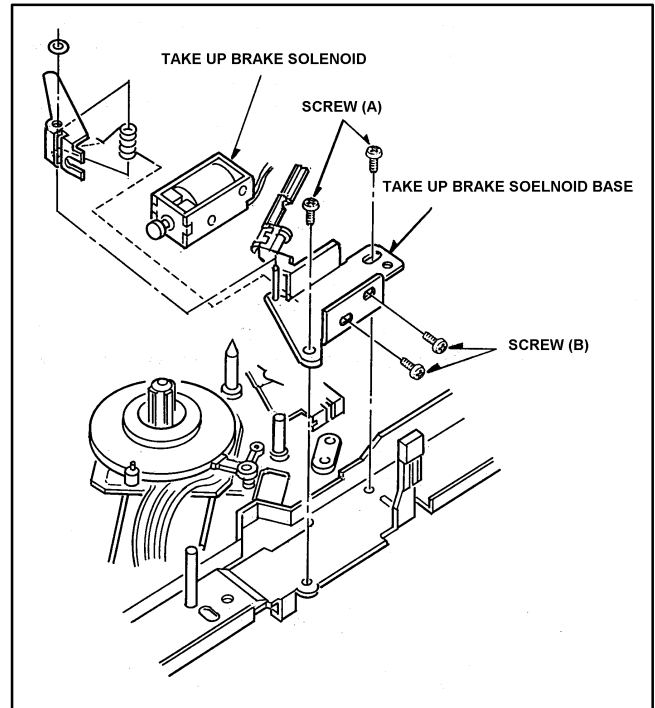


Figure 1-9

#### (Installation)

1. Install the new Take up Brake Solenoid follow the removal steps in reverse order.

#### Note:

Hang on the Take up Brake Spring as shown in Figure 1-9.

2. After installation, position adjustment should be performed as follows.

#### (Adjustment Procedures)

1. Please adjust the position of Take up Brake Solenoid Unit follow the adjustment procedure, which is described item "1-8. Supply Brake Solenoid Replacement and Adjustment".



## 1-10. Pinch Solenoid Replacement

CHART B

Model Type	TYPE A	TYPE B	TYPE C,D
Connector (A)	P20	P2020	P610
P.C.Board (B)	MECH I/F	SERVO	SERVO

### (Removal)

1. Disconnect the **connector (A)** on the **P.C.Board (B)**. (Refer to above chart)
2. Unscrew the 2 screws (A) and remove the Pinch Solenoid Unit as shown in Figure 1-10.
3. Unscrew the 2 screws (B) and remove the Pinch Solenoid Angle as shown in Figure 1-10.
4. Unscrew the 2 screws (C) and remove the Pinch Solenoid from the Pinch Solenoid Base.

### (Installation)

1. Install the new Pinch Solenoid follow the removal steps in reverse order.
2. After installation, execute the Pinch Solenoid Position Adjustment.

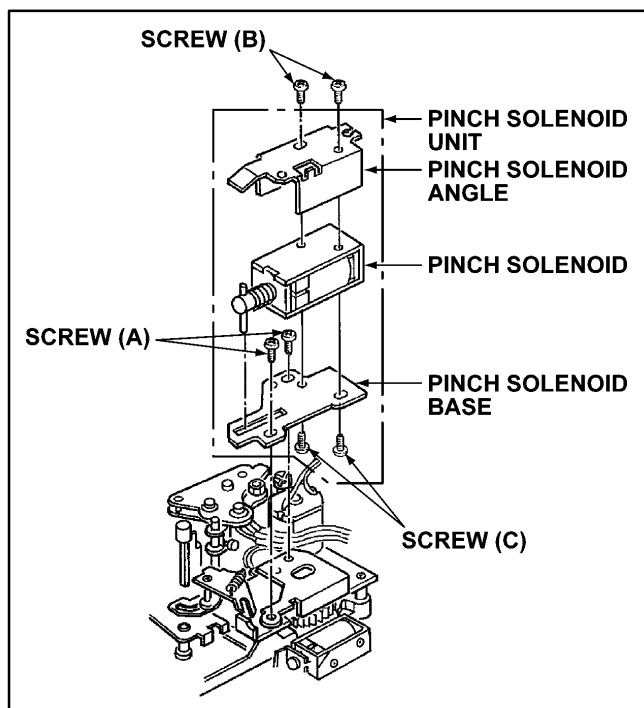


Figure 1-10

## 1-11. Pinch Solenoid Position Adjustment

<b>SPEC.</b>	T = 0.3 mm
<b>TEST</b>	Gap T
<b>ADJUST</b>	Screw (A) and Hole (B)
<b>MODE</b>	EJECT (Power OFF)
<b>TOOL</b>	Eccentric Driver (VFK0357)

1. Confirm the power of condition at VTR turn to OFF.
2. Push the pinch roller by hand to be close to capstan.
3. Push the pinch solenoid by hand so that the pinch roller contacts capstan.
4. Loosen the two screws (A) and adjust the hole (B) by VFK0357 so that gap (T) is within specification.
5. The position for confirm Gap, which is located spring scratch to Plate (C) side.

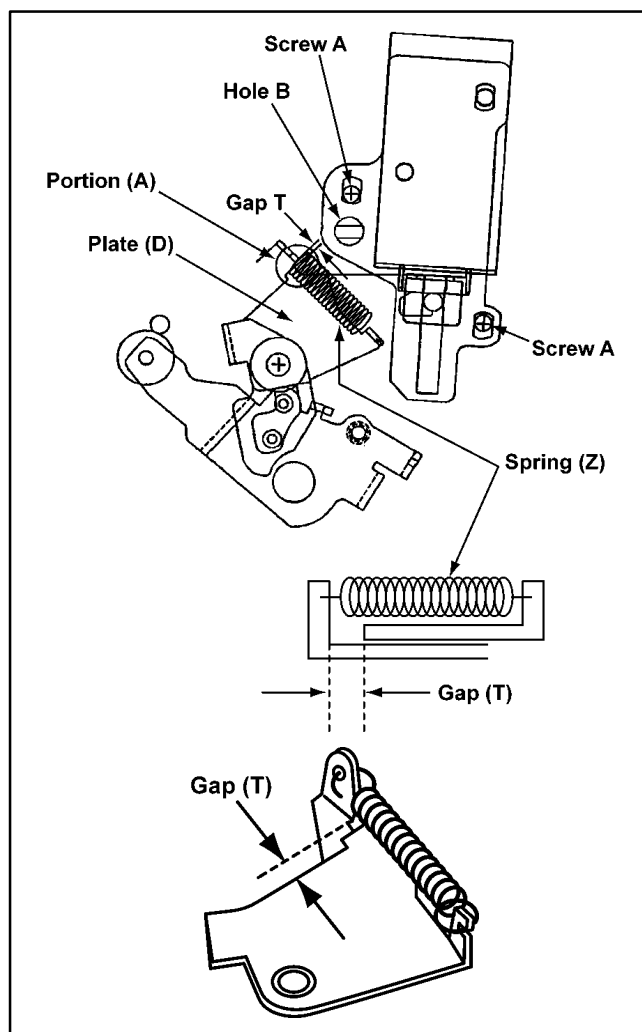


Figure 1-11



## 1-12. Pinch Arm Unit Replacement

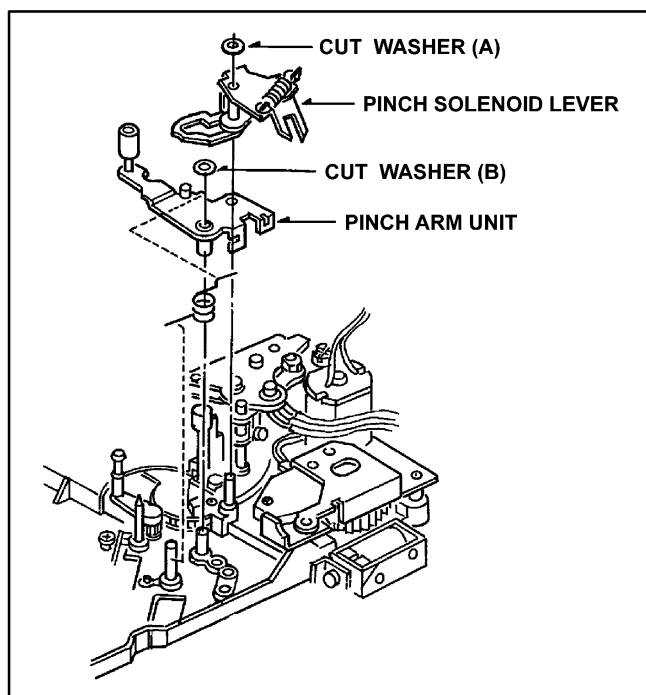
### (Removal)

1. Remove the Pinch Solenoid Unit as refer to item "1-10.Pinch Solenoid Replacement".
2. Remove the cut washer (A) and remove the Pinch Solenoid Lever as shown in Figure 1-12.
3. Remove the cut washer (B) and remove the Pinch Arm Unit as shown in Figure 1-12.

### (Installation)

1. Install the new Pinch Arm Unit follow the removal steps in reverse order, and then Pinch Solenoid Position Adjustment is necessary.

Figure 1-12



## 1-13. Loading Motor Replacement

CHART B

Model Type	TYPE A	TYPE B	TYPE C,D
Connector (A)	P21	P2021	P611
P.C.Board (B)	MECH I/F	SERVO	SERVO

### (Removal)

1. Disconnect the connector (A) on the P.C.Board (B).
2. Remove the Pinch Solenoid Unit. (Refer to item 1-10).
3. Unscrew the screw (B), and remove the Emergency Shaft as shown in Figure 1-13.
4. Unscrew the 2 screws (C) and remove the Loading Motor Neutral Unit as shown in Figure 1-13.
5. Unscrew the 2 screws (D) and remove the Loading Motor Unit as shown in Figure 1-13.

### (Installation)

1. Install the new Loading Motor Unit to Loading Motor Neutral Unit by tightening 2 screws (D).
2. Install the Loading Motor Neutral Unit by tightening the 2 screws (C), then be careful that the pin of Mode SW Unit should be matched to groove position of main Cam Gear.
3. Install the Emergency Shaft by tightening the screw (B).
4. Install the Pinch Solenoid Unit and after installation it, Pinch Solenoid Position adjustment is required. (Refer to item 1-11).
5. Connect the Connector (A) to the P.C.Board (B).

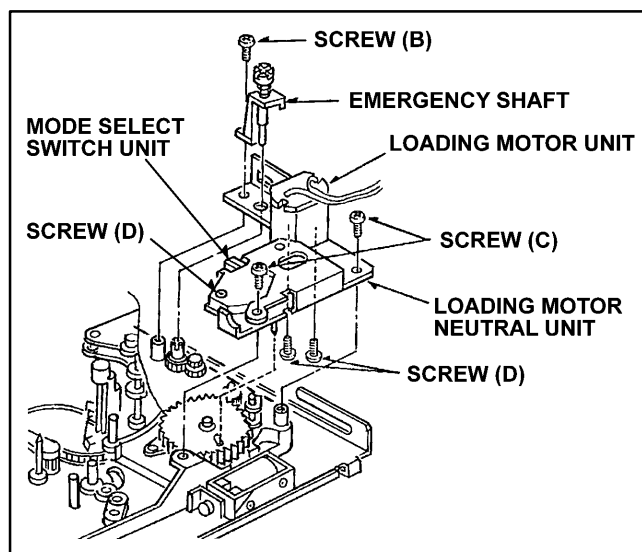


Figure 1-13



## 1-14. Mode SW Unit Replacement

### CHART B

Model Type	TYPE A	TYPE B	TYPE C,D
Connector (A)	P22	P2022	P612
P.C.Board (B)	MECH I/F	SERVO	SERVO

#### (Removal)

1. Disconnect the **connector (A)** on the **P.C.Board (B)**.
2. Remove the Pinch Solenoid Unit and Loading Motor Unit. (Refer to item 1-10 and 1-13.)
3. Remove the screw (D) and remove the Mode Select Switch Unit from Loading Motor Unit as shown in Figure 1-14.

#### Note:

Be careful the pin of Mode Switch Unit should be matched to groove of Main Cam Gear.

#### (Installation)

1. Install the New Mode Select Switch Unit follow the removal steps in reverse order (Refer to item "1-13. Loading Motor Unit Replacement").
2. After install the Pinch Solenoid Unit, Pinch Solenoid Position adjustment is required. (Refer to item 1-11).

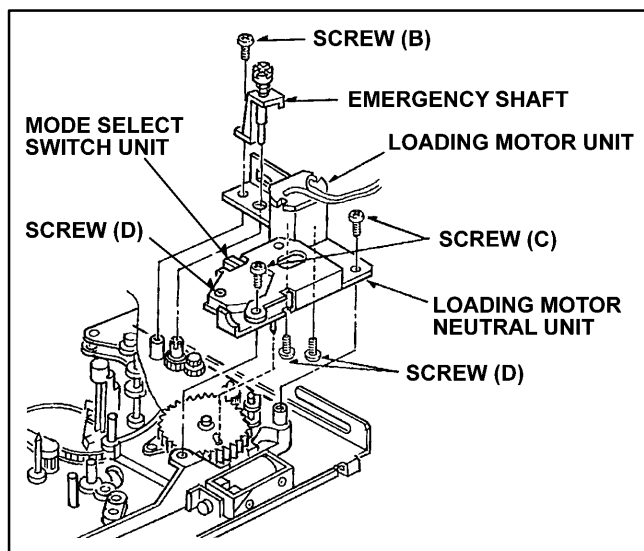


Figure 1-14

## 1-15. Main Cam Gear Replacement

#### (Removal)

1. Remove the Pinch Solenoid Unit and Loading Motor Unit. (Refer to item 1-10 and 1-13.)
2. Remove the Main Cam Gear as shown in Figure 1-15.

#### (Installation)

1. Install the Main Cam Gear, then the pin of Main Cam Arm Unit (\*) should be matched with the groove position of Main Cam Gear as shown in Figure 1-15.
2. Follow the removal steps in reverse order.
3. After installation, execute the Pinch Solenoid Position Adjustment. (Refer to item 1-11)

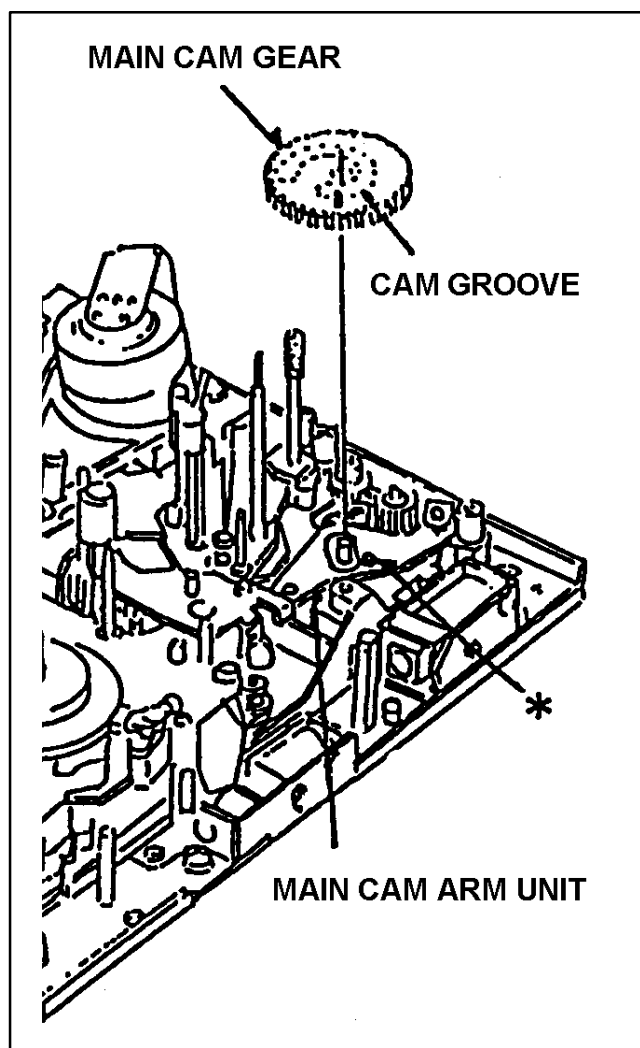


Figure 1-15



## 1-16. Thrust Screw Replacement and Adjustment

1. Remove the Thrust Adjustment Screw.
2. Enforce cleaning of point department of capstan shaft with an applicator.
3. Put the oil (VFK0906) on a new Thrust Adjustment Screw and install the upper end of the Capstan Housing.
4. Turn the Thrust Adjustment Screw slowly to counter-clockwise until the Capstan Rotor just starts turning (separate from the Capstan Rotor).
5. Turn the Thrust Adjustment Screw an another angle of 270 degrees from 180 degrees (about 225 degrees) clockwise as shown in Figure 1-16-2.
6. Put the glue (Ex. : Three Bond 1401B) on the Thrust Adjust Screw.
7. Confirm whether the Oil Seal does not come in contact with the Capstan Housing.

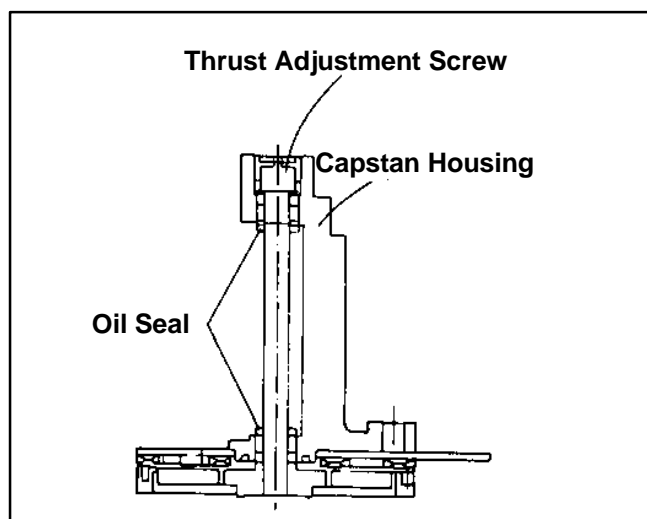


Figure 1-16-1

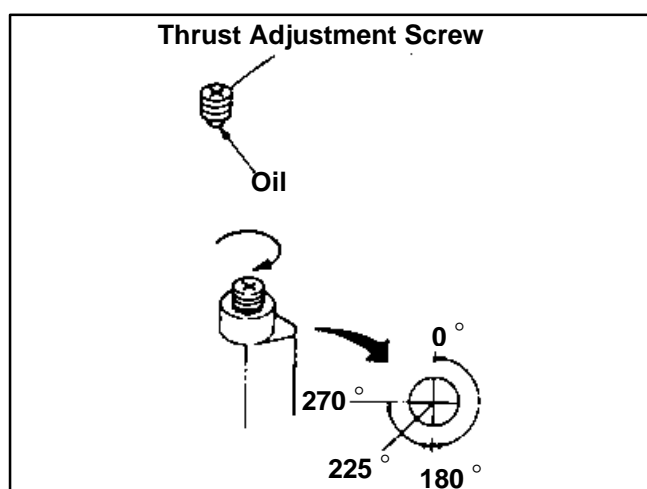


Figure 1-16-2

## 1-17. S5 Post Base Unit Replacement

### (Removal)

1. Unscrew the screw (A) and remove the S5 Post Base Unit as shown in Figure 1-17.

### (Installation)

1. Install the S5 post Base Unit follow the removal steps in reverse order.

**Note:** Be careful the S5 Post Base Unit is install to mech. chassis as shown in Figure 1-17.

2. After installation, Post Height Pre-Adjustment and Tape pass Adjustment should be performed.

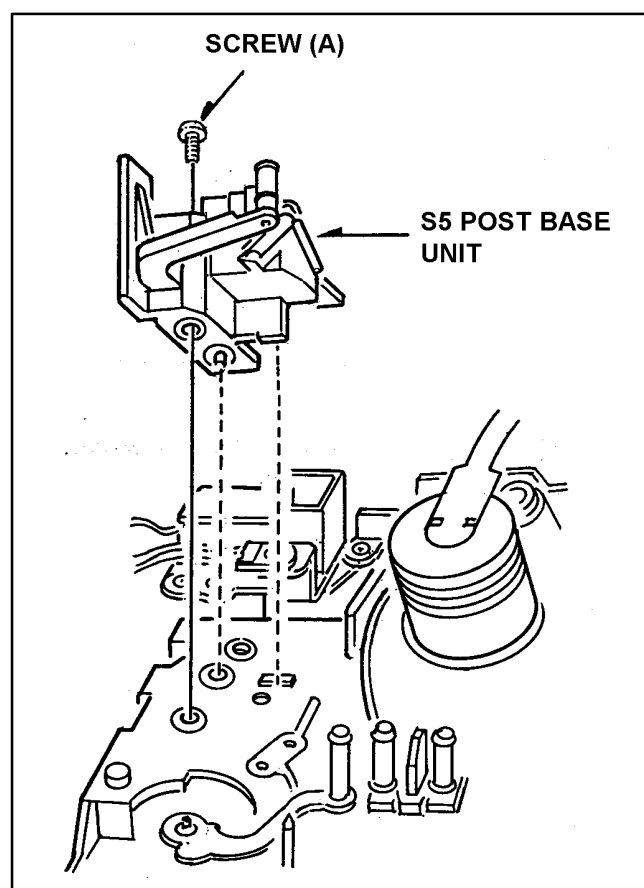


Figure 1-17



## 1-18. Tension Arm Unit Replacement

### (Removal)

1. Remove the Cut Washer (A) and hang off the Tension Regulator Spring, and then remove the Tension Arm Unit as shown in Figure 1-18.

### (Installation)

1. Install the new Tension Arm Unit follow the removal steps in reverses order.
2. After installation, Tension Arm Adjustment should be performed the following steps.

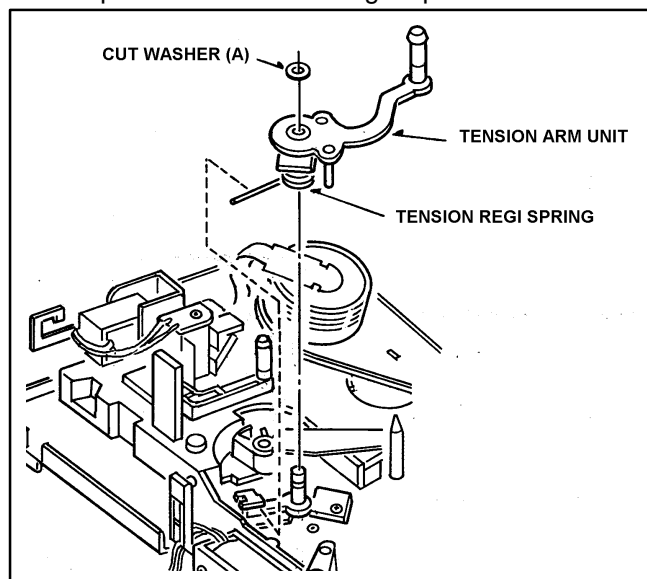
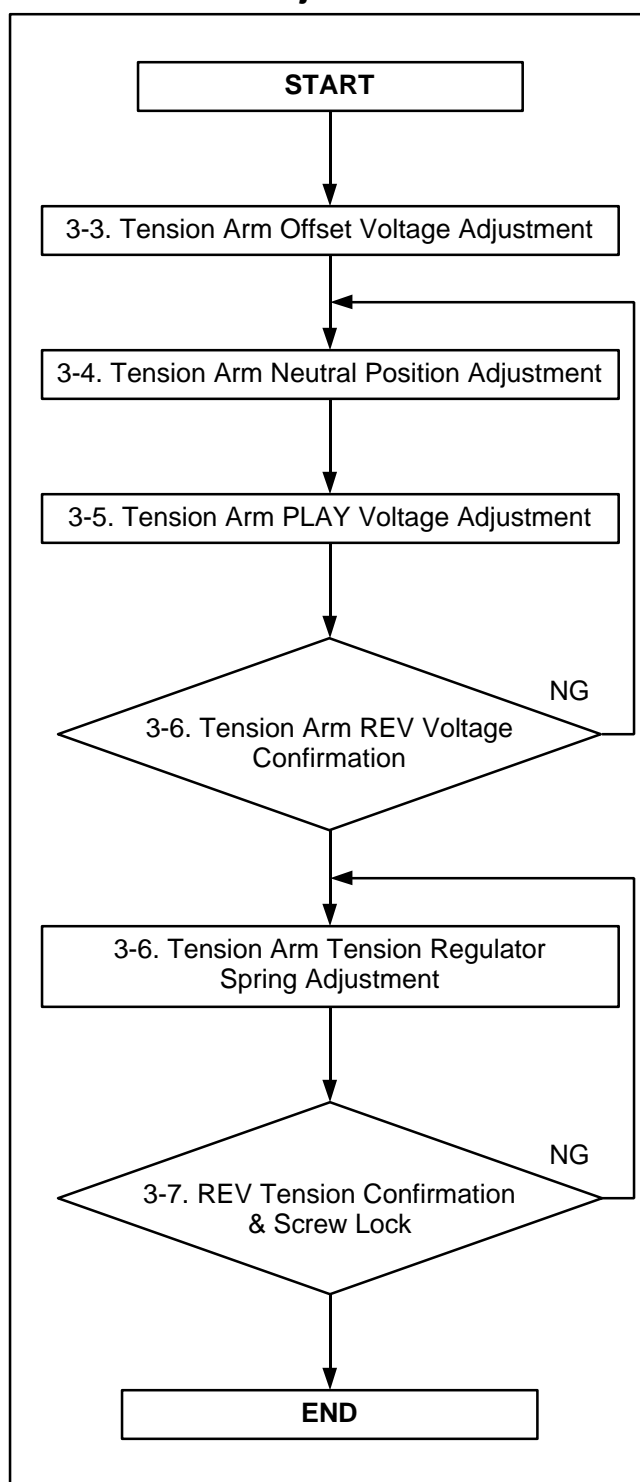


Figure 1-18

### <Tension Arm Adjustment Flow Chart>





## 1-19. S1 Post Loading Arm Unit Replacement & Adjustment

### (Removal)

1. Remove the S5 Post Base Unit. (Refer to item 1-17)
2. Remove the Tension Arm Unit. (Refer to item 1-18).
3. Unscrew the screw (A) and remove the S1 Post from Loading Rail as shown in Figure 1-19.
4. Remove the Cut Washer (B) and remove the S1 Loading Arm Unit as shown in Figure 1-19.

### (Installation)

1. Install the new S1 Loading Arm Unit follow the removal steps in reverse order, and then S1 Post Loading Arm Unit Phase Adjustment should be performed as follows.
2. After installation, confirm that the S1 Post moving smoothly on the Loading Rail.
3. Tension Arm and Tape pass Adjustment should be performed.

### (Adjustment)

Install and adjust so that the Hole (A) is to be parallel with Hole (B) as shown in Figure 1-19.

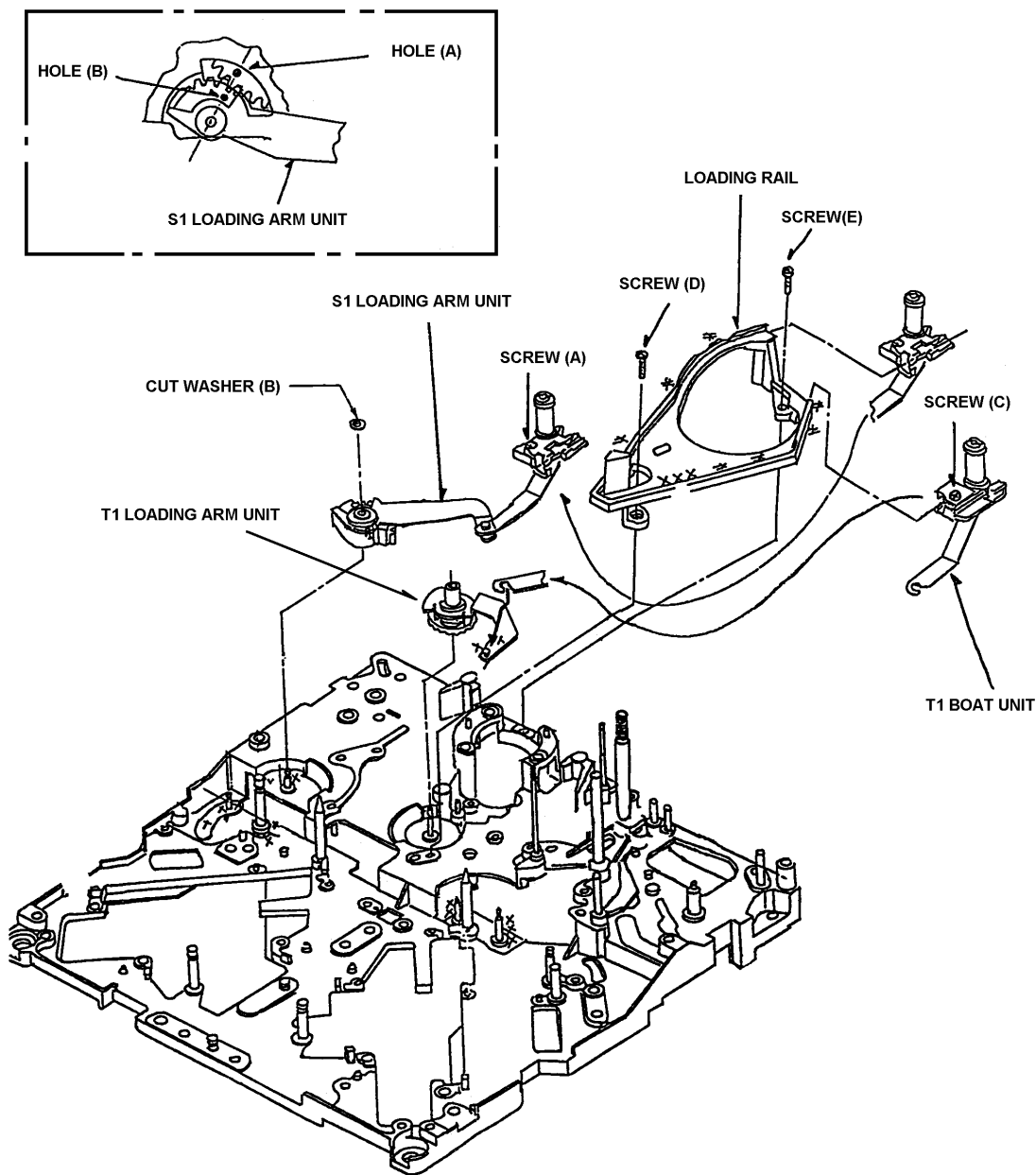


Figure 1-19



## 1-20. T1 Boat Unit Replacement

### (Removal)

1. Unscrew the screw (C) and remove the T1 Post from Loading Rail as shown in Figure 1-19 on the above page.
2. Hang off the T1 Boat Unit from T1 Loading Arm Unit as shown in Figure 1-19.

### (Installation)

1. Install the new T1 Boat Unit follow the removal steps in reverse order.
2. After installation, confirm that the T1 Post moving smoothly on the Loading Rail.
3. Tape pass Adjustment should be performed.

### (Know how for Replacing T1 boat)

#### (1) T1 boat replacing procedure

Fix the T1 boat flat to the T loading arm N ass'y with minimum bending of the T1 boat arm.

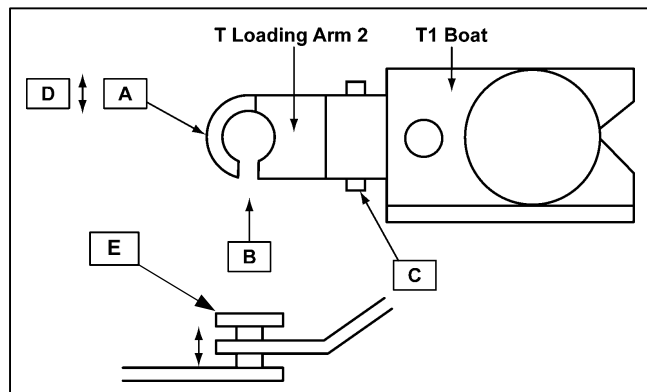


Figure 1-20-1

- If the portion A shown in the figure above is deformed, the T1 boat can cause snag during loading or significant change in X-Value. Visually check the portion A for deformation.
- If deformation is found, remove the T1 boat, flatten the arm by using an appropriate tool such as a pair of long nose pliers and then install the T1 boat. Or, replace the arm with a new one.
- If the portion B shown in the figure above is significantly deformed, the arm can become loose. At a half load position, while pinching the portion C of the arm with tweezers, slightly move the arm in the directions of D shown in the figure several times and make sure that the arm does not come off. If it can come off, remove the T1 boat. Using long nose pliers, narrow the opening B and then fit the T1 boat.

### (Confirmation and Adjustment Procedure)

Tool : T Arm Height Adj. Tool A (VFK1542)

T Arm Height Adj. Tool B (VFK1543)

#### (1) T1 boat replacing procedure

1. Turn clockwise emergency red screw and set the hole of T1 Boat Unit to match line of take up side cassette fixed pin as shown in figure 1-20-2.
2. Push the Pinch Roller by hand to be close to Capstan and push the Pinch Solenoid by hand so that the Pinch Roller contacts Capstan.
3. Set the T Arm Height Adj. Tool A (VFK1452) to take up side cassette fixed pin as shown in figure 1-20-3.
4. Turn the Tool A and confirm that the Tool A is contact to pin E (the position of pin E as shown in figure 1-20-1) as shown in figure 1-20-3.
5. Set the T Arm Height Adj. Tool B (VFK1543) to take up side cassette fixed pin as shown in figure 1-20-3.
6. Turn the Tool B and confirm that the Tool B is not contact to pin E (the position of pin E as shown in figure 1-20-1) as shown in figure 1-20-3.

### <Specification of T Arm Height>

	Contact of Pin E
Tool A (have cut)	contact
Tool B (have not cut)	no contact

**Note 1 :** In case of Tool A does not contact to Pin E.

1. Remove the T1 Boat Unit from Loading Rail and press up the T Loading Arm 1 by hand for change the height of T Loading Arm.
2. Install the T1 Boat Unit and hit the Pin E from the top lightly.
3. Repeat the T1 Loading Arm Height Adjustment.

**Note 2 :** In case of Tool B is contact to Pin E.

1. Remove the T1 Boat Unit from Loading Rail and press down the T Loading Arm 1 by hand for change the height of T Loading Arm.
2. Install the T1 Boat Unit and hit the Pin E from the top lightly.
3. Repeat the T1 Loading Arm Height Adjustment.



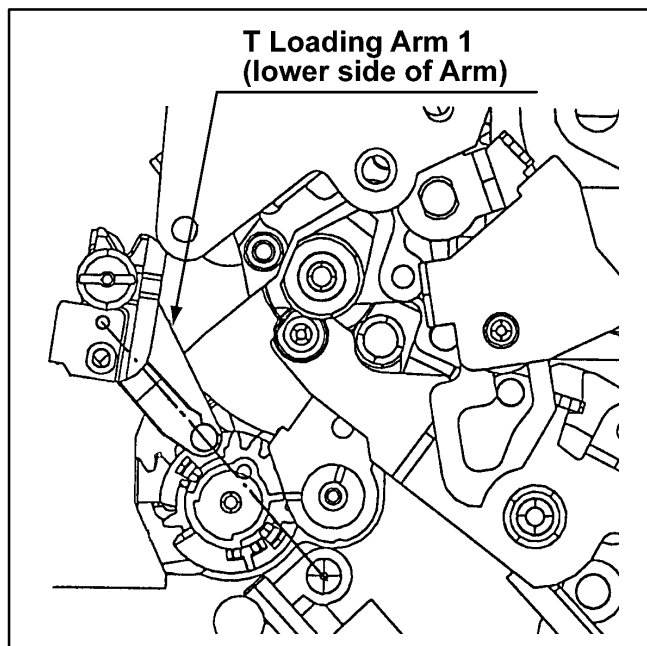


Figure 1-20-2

- (2) Checking for smooth movement of T1 Boat Unit. Check X-Value. Check for smooth loading and unloading operations. If not smooth (especially, at curve of rail), take the following steps.
1. Check T1 boat joint for deformation.
  2. If no deformation, then reposition the loading rail as describe below.

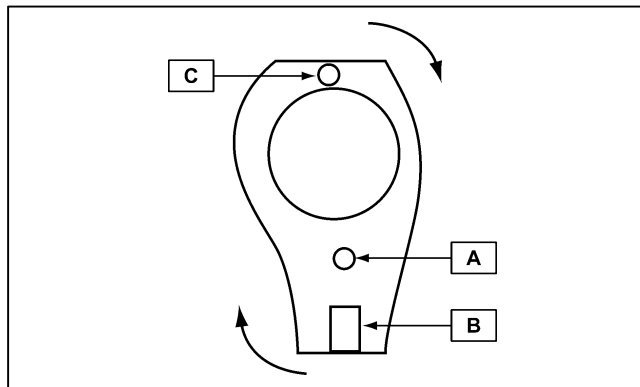


Figure 1-20-4

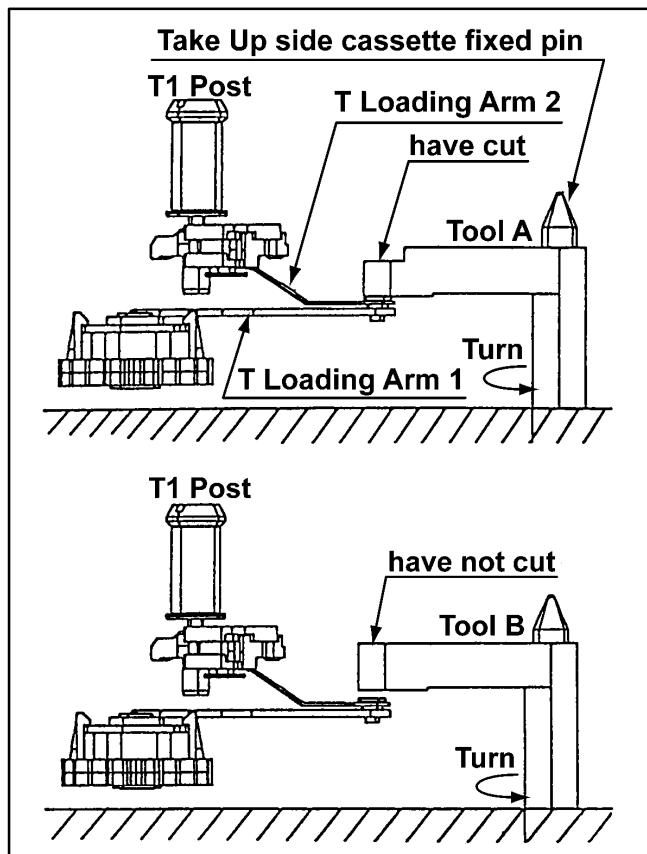


Figure 1-20-3

1. Loosen the screw A.
  2. While pressing the projection B leftward, tighten the screw.
- If operation is not smooth, remove CYL and loosen screws A and C. Turn the rail clockwise as shown in the figure and then tighten the screws. If the rail does not work well, replace it or the T1 boat with a new one.



## 1-21. T1 Loading Arm Unit Replacement & Adjustment

### (Removal)

1. Remove the cylinder Unit. (Refer to item 1-1)
2. Move the T1 Post to loading direction by manual ejecting method until the screw (D) can be removal position as shown in Figure 1-19.
3. Unscrew the 2 screws (A) and (C), then remove the S1 and T1 Post from Loading Rail as shown in Figure 1-19.
4. Unscrew the 2 screws (D) and (E), then remove the Loading Rail as shown in Figure 1-19.
5. Remove the T1 Loading Arm Unit as shown in Figure 1-19.

### (Installation)

1. Install the T1 Loading Arm Unit follow the removal steps in reverse order, then Phase Adjustment should be performed as follows.

### (Adjustment)

1. When install the T1 Loading Arm Unit, then the hole (A) should be matched hole (B) as shown in Figure 1-19.
2. After installation, confirm that the S1 and T1 Post moving smoothly on the Loading Rail.
3. Perform the T1 Loading Arm Height Adjustment. (Refer to previous item)
4. After perform the height adjustment, execute the Post Height Pre-Adjustment and Tape pass Adjustment.

### Note:

This replacement should be performed simultaneously, replacement of Cylinder Unit. It is convenience for Replacement of T1 Loading Arm Unit.

Figure 1-21

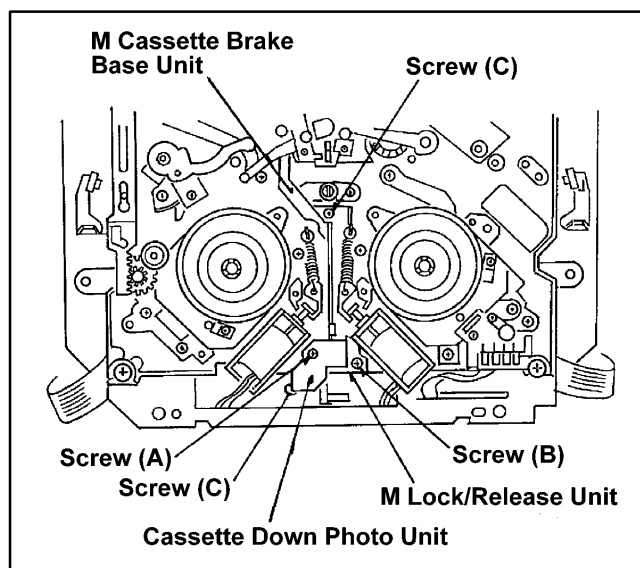
## 1-22. M-Cassette Brake Base Unit Replacement (Camera Recorder only)

### (Removal)

1. Disconnect the all connectors on Servo P.C.Board. Unscrew the 4 screws (A) to remove the Servo P.C.Board as shown in Figure 1-22.
2. Unscrew the screw (A) to remove the Cassette Down Photo Unit.
3. Unscrew the screw (B) to remove the M-Lock/Release Piece Unit.
4. Unscrew the 2 screws (C) to remove the M cassette Brake Base Unit. Then pick up the pin of Eject Arm Unit.

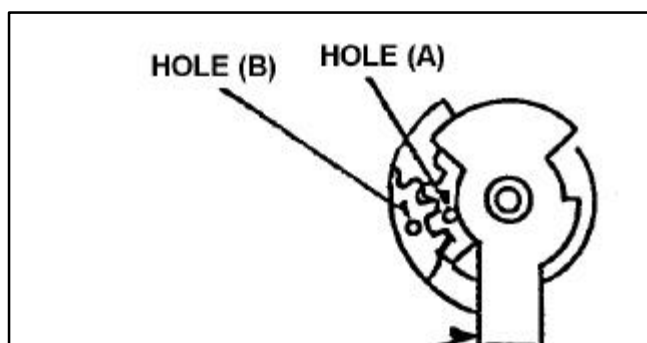
### (Installation)

1. Install the new cassette Brake Base Unit according to the opposite procedures to



removing.

Figure 1-22





## 1-23. A/C head Replacement & Adjustment

### <Tools required>

Nut Driver (5.5mm : VFK1150)

Hex Driver (VFK1148)

Hex Wrench (VFK1190)

### <CHART B>

Model Type	TYPE A	TYPE B
Connector (A)	P4002	P4502
P.C.Board (B)	CUE	AUDIO
Connector (C)	P4003	P2030
P.C.Board (D)	CUE	SERVO
Model Type	TYPE C	TYPE D
Connector (A)	P600	P600
P.C.Board (B)	SERVO	SERVO
Connector (C)	P1003	P1005
P.C.Board (D)	REAR JACK	REAR JACK

### (Removal)

1. Loosen the hex screw (B) and remove the Nut (C). Hang off the Head Height Adjustment Spring and then remove the A/C Head Unit as shown in Figure 1-23-1.

### Point:

Memorized height of the Nut (C) before remove the Nut (C).

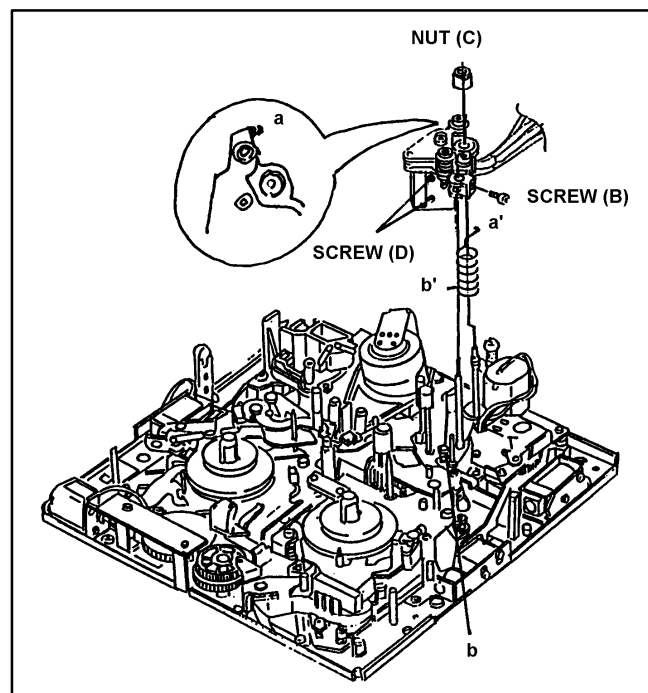


Figure 1-23-1

3. Remove the 2 screws (A) and disconnect the connector (A) on the P.C.Board (B) and connector (C) on the P.C.Board (D), and then remove the A/C Head from the A/C Head Plate as shown in Figure 1-23-2.

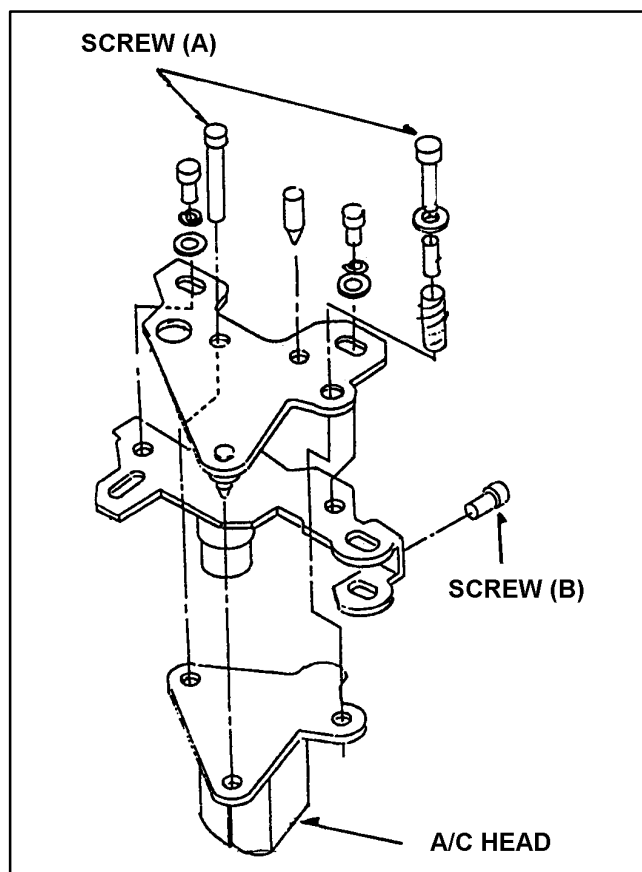


Figure 1-23-2

4. Remove the Shield Cover by removing 2 screws (D).
5. Unsolder the lead wires as shown in Figure 1-23-3. (When unsolder the lead wires, do not unsolder all at the same time)



### (Installation)

1. Remove the Shield Case from the New A/C Head and solder the lead wires to New A/C Head. (Refer to Figure 1-23-3)
2. Reinstall the shield case to A/C Head.
3. Install the A/C Head to A/C Head Plate by tight 2 screws (A), then set to parallel the gap between A/C Head and A/C Head Plate.
4. Install the A/C Head Unit.
5. Hang on the Head Height Adjustment Spring and tighten the Nut (C).
6. Clean the surface of the A/C Head.

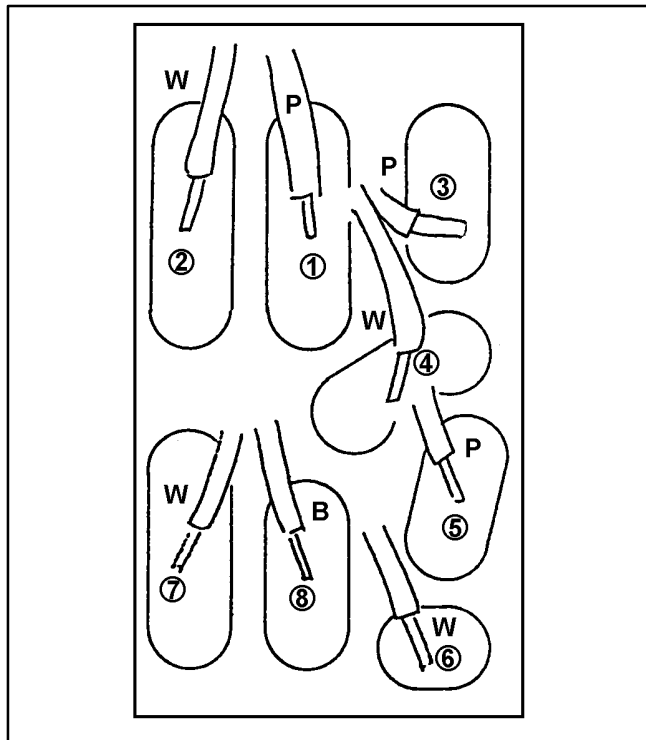
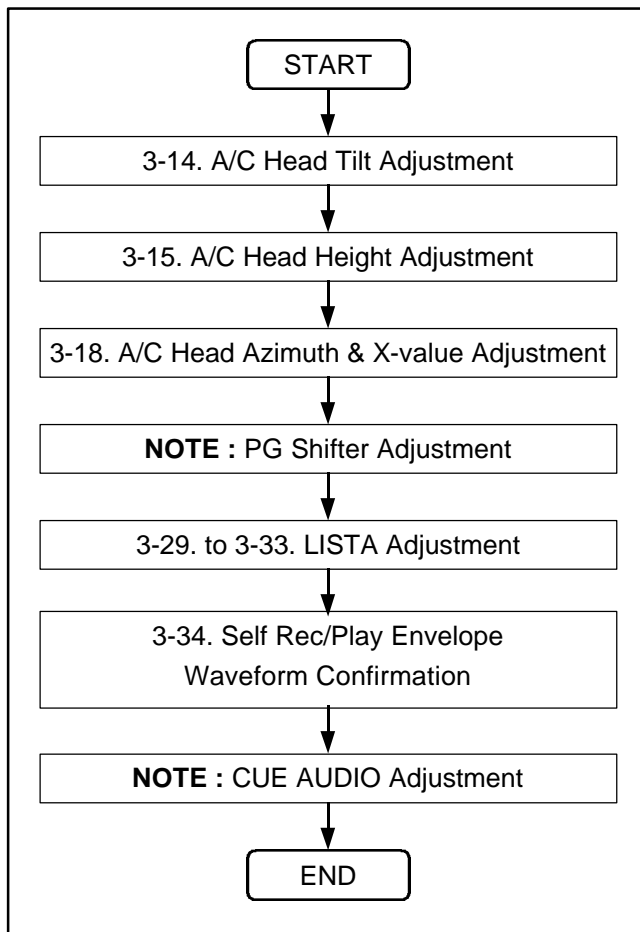


Figure 1-23-3

A/C Head	Cable Color		Connector
1	Pink	Yellow	P1
2	White		
3	Pink	Red	
4	White		
5	Pink	Green	P30
6	White		
7	White	Yellow	
8	Black		

### <A/C Head Adjustment>

1. After change the A/C Head, please perform the following steps.



#### NOTE :

PG Shifter and CUE AUDIO adjustment procedures are mentioned on Electrical Adjustment Procedures on Service Manual.



## 1-24. Cleaner Solenoid Replacement & Adjustment

### <CHART B>

Model Type	TYPE A	TYPE B	TYPE C,D
Connector (A)	P11	P2011	P618
P.C.Board (B)	MECH I/F	SERVO	SERVO

### (Removal)

1. Disconnect the **connector (A)** on the **P.C.Board (B)**. (Refer to above charts.)
2. Unscrew the 2 screws (A) and remove the Cleaner Solenoid Unit as shown in Figure 1-24.
3. Unscrew the 2 screws (B) and remove the Cleaner Solenoid as shown in Figure 1-24.

### (Installation)

1. Install the new Cleaner Solenoid follow the removal steps in reverse order.
2. After installation, execute the Cleaner Solenoid Position adjustment.

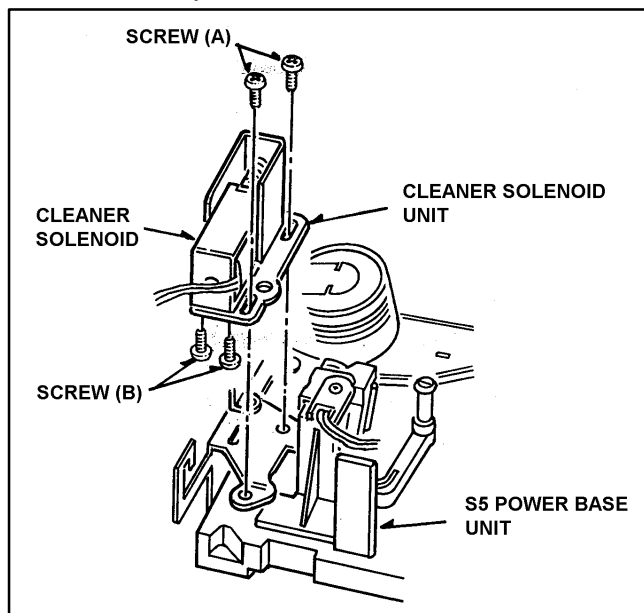


Figure 1-24-1

## 1-24-1. Cleaner Solenoid Position Adjustment

### <Tools required>

Eccentric Driver (VFK0357)

1. Press the iron core of Cleaner Solenoid.
2. Observe the clearance (D) between Cleaning Arm Unit and Cleaner Base Plate as shown in Figure 1-24-2. And make sure that it is within 0.5 to 0.7mm.
3. If not, loosen the 2 screws (A) and adjust the position of Cleaner Solenoid Unit by moving arrow direction (C  $\longleftrightarrow$  C) using the Eccentric drive so that the clearance (D) is within specification. And tighten the 2 screws.
4. After adjustment, confirm that as follow.
5. Press the iron core of Cleaner Solenoid and released it, then the Cleaning Roller is return to original position.
6. Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated, when the Cylinder is rotated by hand.

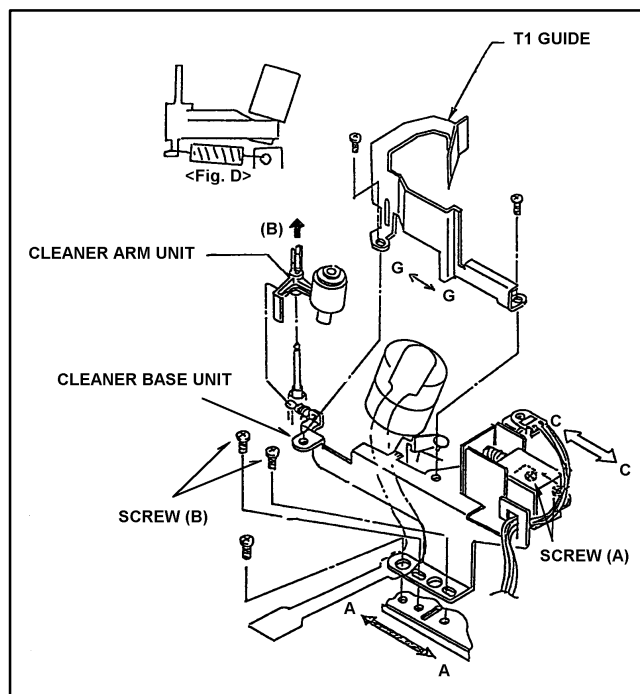


Figure 1-24-2



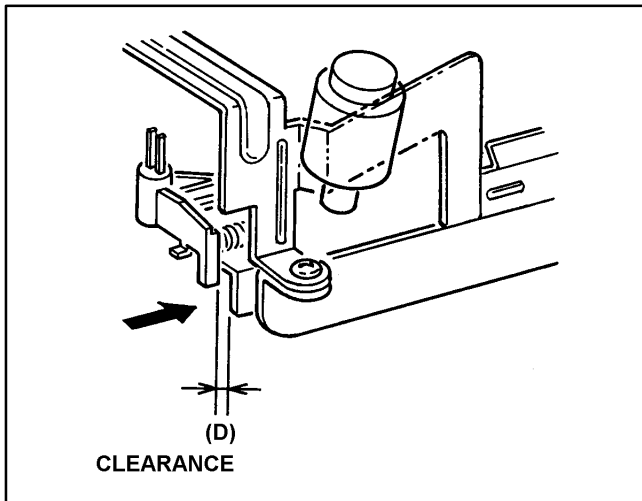


Figure 1-24-3

**Note:**

If remove the cleaner Base Plate, execute the Cleaner roller Position adjustment.

## 1-24-2. Cleaner Roller Position Adjustment

**<Tools required>**

Eccentric Driver (VFK0357)

1. Observe the clearance (A) between Cleaner Roller and cylinder Unit as shown in Figure 1-24-4. And make sure that it is within 1.0 to 1.2mm.
2. If not, loosen the 2 screws (B) and adjust the position of Cleaner Base Plate by moving arrow direction (A  $\longleftrightarrow$  A) using the Eccentric driver so that the clearance (A) is within specification. And tighten the 2 screws (B).

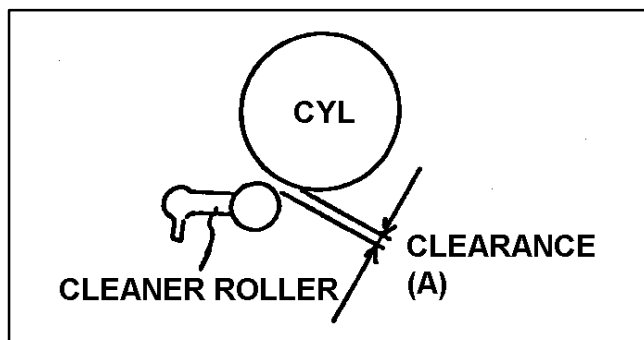


Figure 1-24-4

## 1-25. Distinction SW Unit Replacement (except Camera Recorder)

**<CHART B>**

Model Type	TYPE A	TYPE B
Connector (A)	P17	P2017
P.C.Board (B)	MECH I/F	SERVO

**(Removal)**

1. Disconnect the **connector (A)** on the **P.C.Board (B)**. (Refer to above charts.)
2. Remove the MIC Drive Rev Spring at Distinction Switch Unit side as shown in Figure 1-25.
3. Unscrew the 3 screws (A) and remove the MIC Rail Unit as shown in Figure 1-25.

**(Installation)**

1. Install the new Distinction Switch Unit follow the removal steps in reverse order.
2. Confirm that the M and L cassettes touch to Distinction Switch Unit correctly.

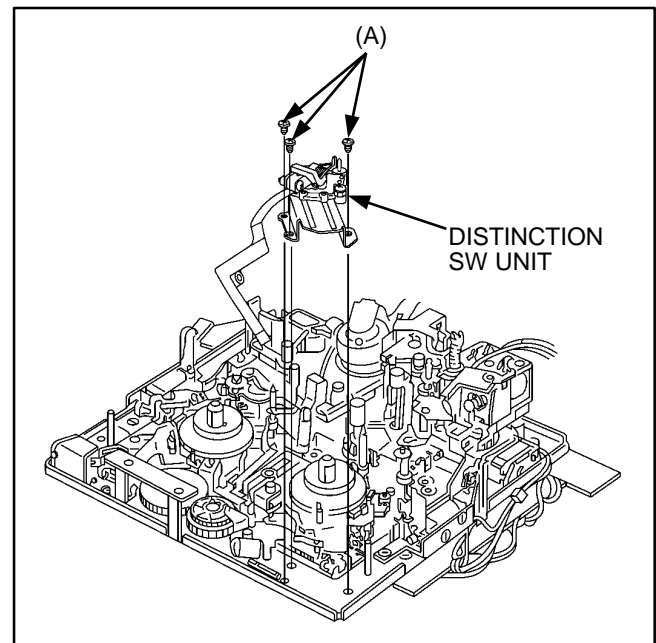


Figure 1-25



## 1-26. MIC Base Unit Replacement (Camera Recorder only)

### (Removal)

1. Disconnect the connector P607 on the Servo P.C.Board.
2. Unscrew the 2 screws (A) and remove the MIC Base Unit as shown in Figure 1-26.

### (Installation)

1. Install the new MIC Base Unit according to the opposite procedures to removing.
2. Confirm that the M cassette touches to MIC Base Unit properly.

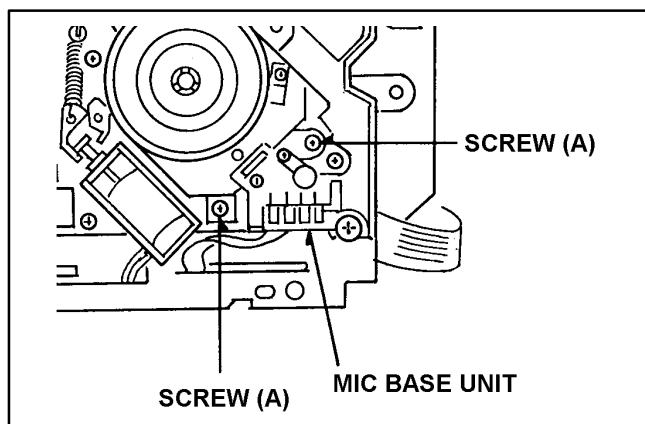


Figure 1-26

## 1-27. Reel Drive Motor Unit Replacement (except Camera Recorder)

### <CHART B>

Model Type	TYPE A	TYPE B
Connector (A)	P16	P2016
P.C.Board (B)	MECH I/F	SERVO

### (Removal)

1. Disconnect the connector (A) on the P.C.Board (B).
2. Unscrew the 2 screws (A) and remove the Reel Drive Sensor P.C.Board as shown in Figure 1-27.
3. Unscrew the 2 screws (B) and remove the Reel Drive Motor Unit as shown in Figure 1-27.

### (Installation)

1. Install the new Reel Drive Motor Unit follow the removal step in reverse order.

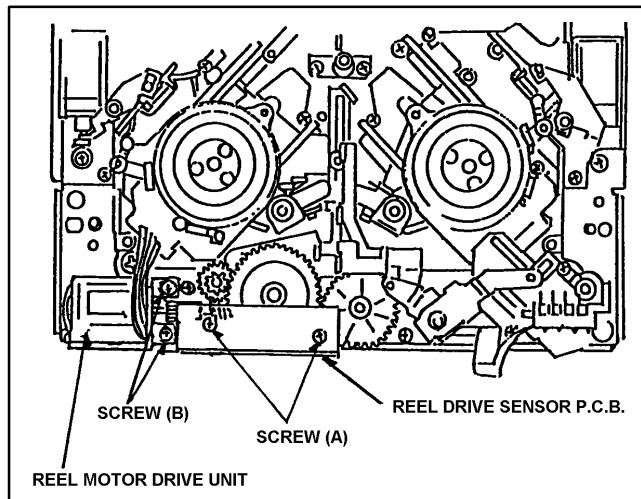


Figure 1-27

## 1-28. L-M Release Angle Unit Replacement (except Camera Recorder)

### (Removal)

1. Unscrew the 2 screws (A) and remove the L-M Release Angle Unit as shown in Figure 1-28.

### (Installation)

1. Install the new L-M Release Angle Unit follow the removal steps reverse order.

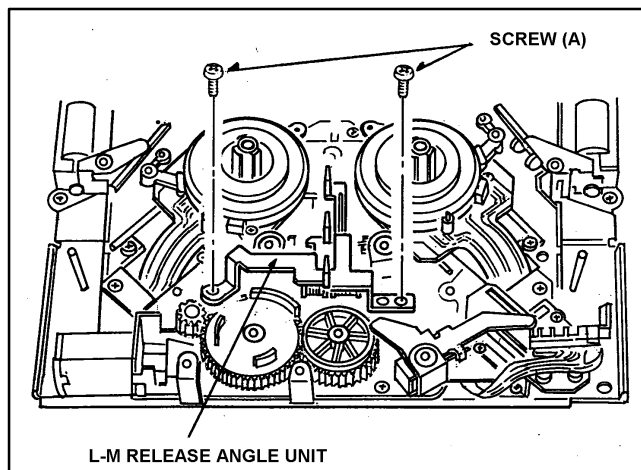


Figure 1-28



## 1-29. Slide Rod Unit Replacement & Adjustment (except Camera Recorder)

### (Removal)

1. Remove the L-M Release Angle Unit. (Refer to item 1-28)
2. Remove the Reel Drive Sensor P.C.Board. (Refer to item 1-27).
3. Remove the Cut Washer (A) and remove the Reel Drive Cam Gear as shown in Figure 1-29-1.
4. Remove the Cut Washer (B) and remove the MIC Drive Arm Unit as shown in Figure 1-29-1.
5. Remove the Cut Washer (C) and remove the MIC Geneva Gear as shown in Figure 1-29-1.
6. Remove the Cut Washer (D) and remove the Reel Drive Arm Unit as shown in Figure 1-29-2.
7. Remove the Supply and Take Up Reel Rotor Unit. (Refer to item 1-5)
8. Remove the 2 Cut Washers (E) and remove the Supply and Take Up Base Drive Arm Unit.
9. Remove the 2 Cut Washers (F) and remove the Slide Rod Unit.

### (Installation)

1. Install the new Slide Rod Unit follow the removal steps in reverse order.
2. When install the Reel Drive Cam Gear and MIC Geneva Gear, then phase adjustment should be performed as follows.

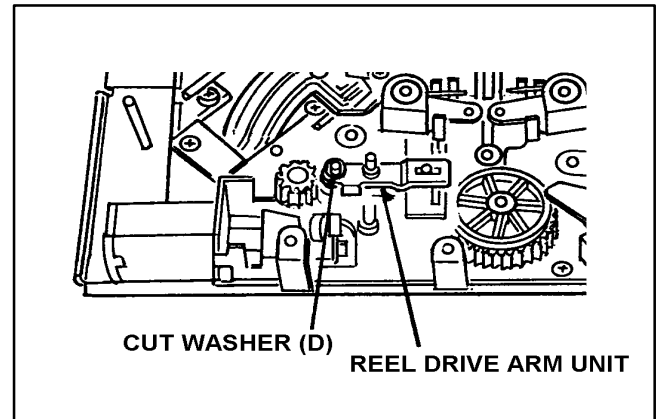


Figure 1-29-2

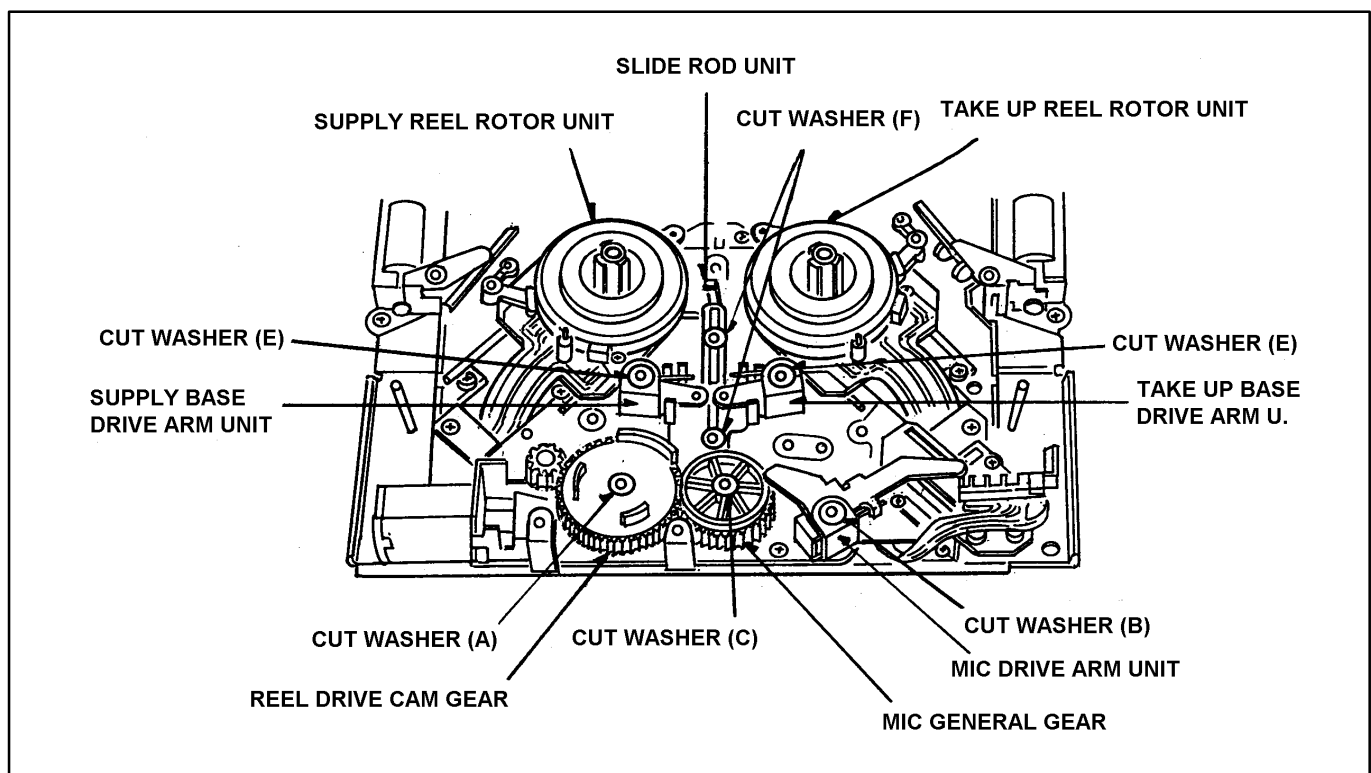


Figure 1-29-1



### (Adjustment)

1. Install the MIC Geneva Gear to the Chassis.
2. Place the Reels in the M-Size position by hand.
3. Install the MIC Drive Arm Unit.
4. Place the REC Inhibit SW in front position on Distinction SW Unit by rotation of MIC Geneva Gear, and then MIC Geneva Gear should be positioned as shown in Figure 1-29-3.

### Note:

Protrusion of MIC DRIVE Arm Unit is positioned as shown in Figure 1-29-3.

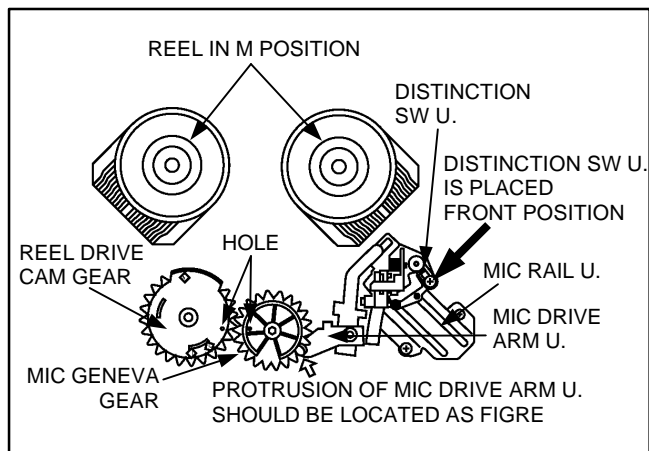


Figure 1-29-3

5. Install the Reel Drive Cam Gear and hole of Reel Drive Cam Gear should be matched with the hole of MIC Geneva Gear as shown in Figure 1-29-3.
6. Install the Cut Washer (A), (B) and (C) as shown in Figure 1-29-1.

### Point of Adjustment:

- 1) Reel in M-Size position.
- 2) Set the REC Inhibit SW in front position of Distinction SW Unit.
- 3) Protrusion of MIC Drive Arm Unit is positioned as shown in Figure 1-29-3.
- 4) Holes between Reel Drive Cam Gear and MIC Geneva Gear are matched.

## 1-30. M-Stopper Solenoid Replacement & Adjustment (except Camera Recorder)

### <CHART B>

Model Type	TYPE A	TYPE B
Connector (A)	P24	P2024
P.C.Board (B)	MECH I/F	SERVO

### (Removal)

1. Remove the **connector (A)** on the **P.C.Board (B)**.
2. Unscrew the 4 screws (A) and (B) and remove the M-Stopper Solenoid as shown in Figure 1-30-1.

### (Installation)

1. Install the new M-Stopper Solenoid follow the removal steps in reverse order.
2. After installation, position adjustment should be performed as follows.

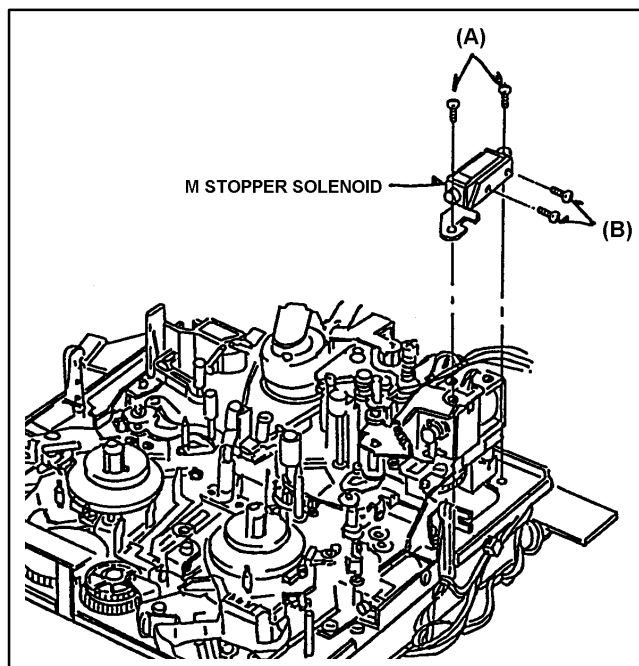


Figure 1-30-1



### (Adjustment)

1. Place the reels in the L size position.
2. Push the iron core of M-Stopper Solenoid by hand.
3. Observe the clearance (A) between Mech. Chassis and M-Stopper as shown in Figure 1-31-2. And make sure that it is within 1.1 to 1.3mm.
4. If not, loosen the 2 screws (A), which fixed M-Stopper Solenoid. And adjust the position of M-Stopper Solenoid so that the clearance (A) is within specification. And tighten the 2 screws (A).

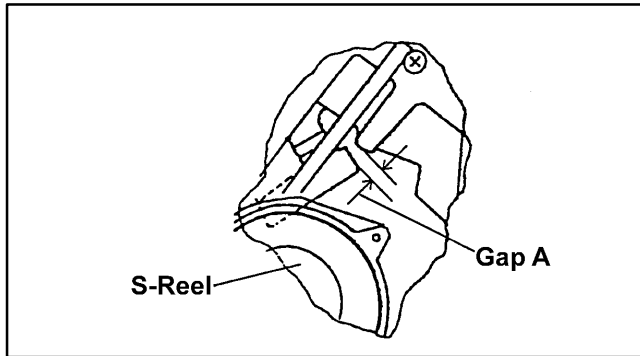


Figure 1-30-2

### 1-31. T4 Post Position Adjustment

1. Confirm that the hole (B) of T4 connection Gear was matched to hole of T4 post as shown in figure 1-31.
2. Confirm that the portion (C) of T4 connection Gear and hole (A), which are located as shown in figure 1-31.
3. If not, adjust the phase of T4 post follow the above procedure.

#### Note:

This confirmation should be performed on unloading condition.

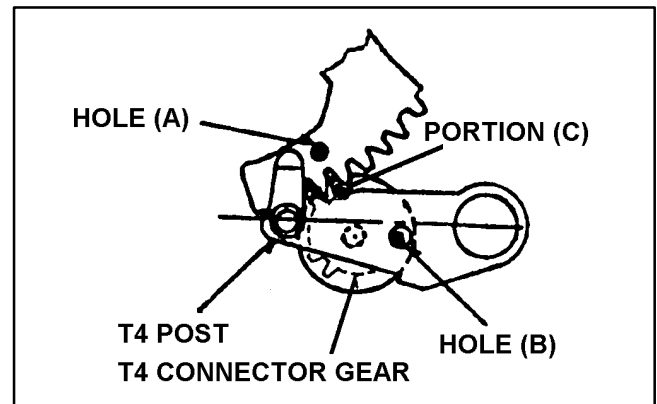


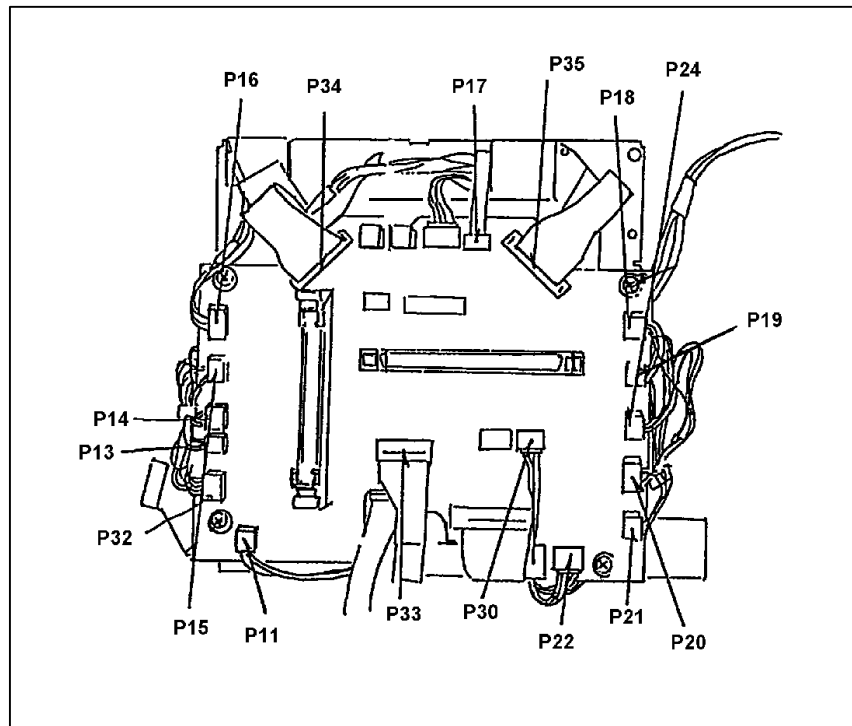
Figure 1-31



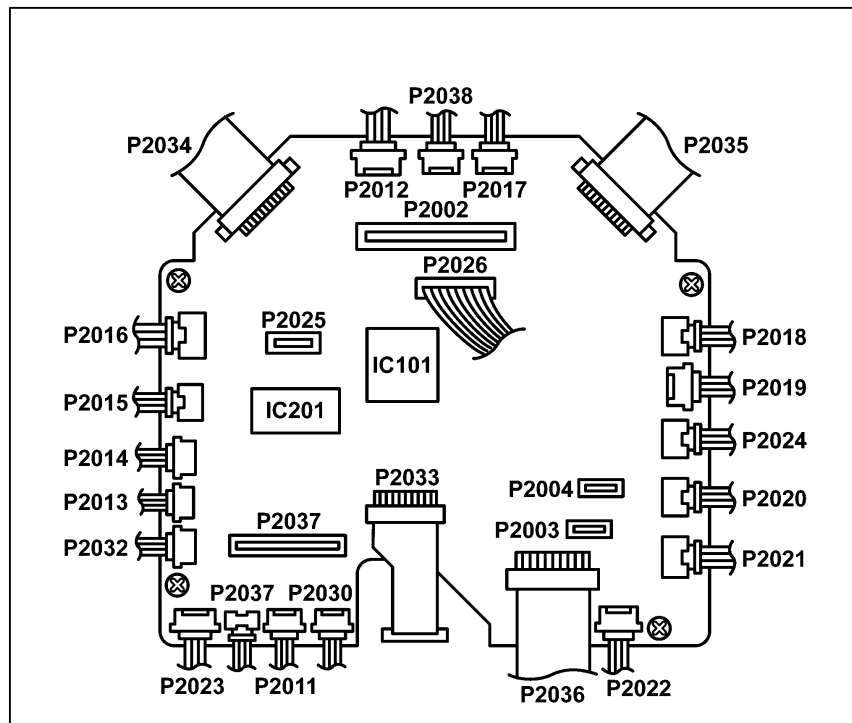
## 2. Connector Location

Please refer to table of <CHART A> on page 3-1, which model is apply to Type A,B,C and D.

### 2-1. Mech. I/F P.C.Board (Type A Model)

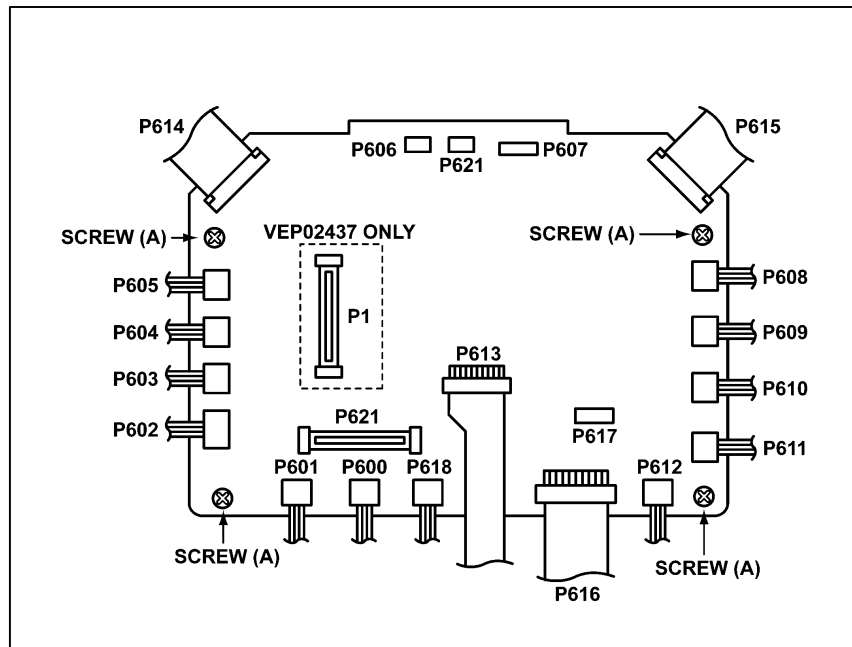


### 2-2. SERVO P.C.Board (Type B Model)





## 2-3. SERVO P.C.Board (Type C, D Model)





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